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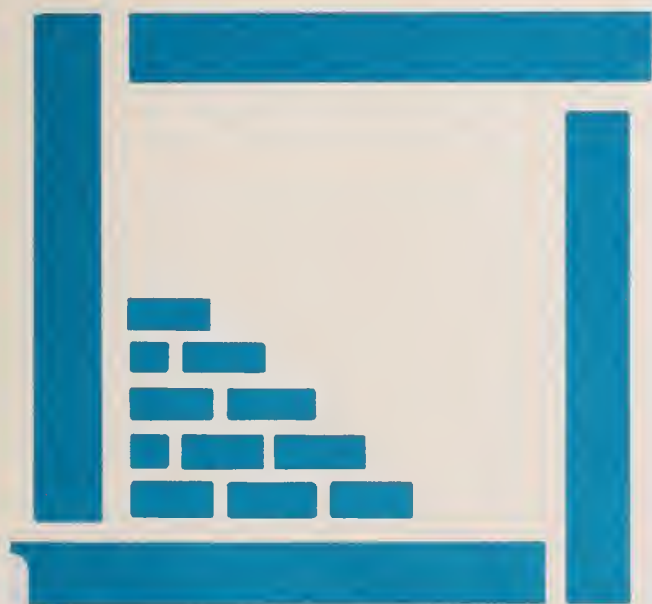
Census of Construction Industries

CC87-A-1

GEOGRAPHIC AREA SERIES

New England States

Connecticut, Maine, Massachusetts,
New Hampshire, Rhode Island, Vermont



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Many persons participated in the various activities of the 1987 Census of Construction Industries.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. **Barry A. Rappaport**, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of **A. William Visnansky**, Chief, Census Operations Branch, with primary staff assistance by **Juliana Van Berkum**, **Barbara J. Hadden**, **Edward R. Glover**, **Susan L. Hostetter**, **Shirley M. Baker**, and **Carolyn J. Stone**. Under the direction of **Jesse Pollock**, **Edward K. Ricketts** and **Dennis K. Duke** developed the sampling plans and variance and estimation specifications.

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If you have any questions concerning the statistics in this report, call (301) 763-7546.

1987

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New Hampshire, Rhode Island, Vermont

Issued August 1990



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PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the—

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan

areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Construction Reports* (building permits, housing starts, and value of new construction put in place), *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property

into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.¹ This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity that follow:

1. **Building construction by general contractors or by operative builders**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
2. **Heavy construction general contractors**—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
3. **Construction by other special trade contractors**—These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry

classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C.; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

Employer Companies

Developing the sampling frame for employer companies—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for single-establishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

Selecting the employer sample—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial four-digit SIC code, in the same State, in the same metropolitan

area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

Estimation procedures for 1987 and 1982 data—

Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_c = \sum_{i=1}^{n_c} x_i / p_i$$

where: x'_c is the simple unbiased estimate of a characteristic for a publication cell.

x_i is the reported value of a characteristic for an individual establishment in the publication cell.

p_i is the selection probability of that firm.

n_c is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts", referred to in the tables as "dollar value of business done", was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all

revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.

To discuss a special tabulation before submitting specifications, call 301-763-7546.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- * Sampling error exceeds 40 percent.
- ** Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
- Represents zero.
- † Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
- †† Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By Industry	By employment size	By size class of the dollar value of business done	By type, class, ownership, kind of business, and location of construction ¹	By CMSA, PMSA, and MSA ²
Assets and depreciation (gross book value):						
Beginning of year—buildings, machinery and equipment	5					
End of year—total	3, 5	3	7	8		
End of year—buildings, machinery and equipment	5					
Depreciation charges during year—buildings, machinery and equipment	5					
Capital expenditures:						
Total capital expenditures	3, 5	3	7	8		12
New buildings—machinery and equipment	5					
Used buildings—machinery and equipment	5					
Communication services, payments for	4					
Employees:						
All employees—average number	3	3	7	8		12
Construction workers—average number	3, 4, 10	3, 10				
Other employees—average number	4					
Employer costs for fringe benefits—legally required and voluntary expenditures	4					
Establishments:						
Number in business at end of year	4					
Number in business during year:						
All		1		2		
With payroll	3, 4, 6, 10	1, 3, 10	7	2, 8		12
Without payroll		1		2		
Hours—construction workers:						
Total	3, 4, 10	3, 10	7	8		
Quarterly	4, 10	10				
Inventories	6					
Materials, components, supplies, and fuels—payments for ..	3, 4	3	7	8		12
Payroll:						
First quarter, all employees	4					
Annual:						
All employees	3, 4	3	7	8		12
Construction workers	3, 4	3				
Other employees	4					
Power, fuels, and lubricants—payments for	4					
Proprietors and working partners:						
All establishments		1		2		
Establishments with payroll	4	1		2		
Establishments without payroll		1		2		
Ratios, industry	11	11				
Receipts:						
Dollar value of business done:						
All establishments		1		2		
Establishments with payroll	4	1	7	2, 8		
Establishments without payroll		1		2		
Value of construction work, total	3, 4, 6	3	7	8	4, 9,	12
For work subcontracted in from others	4					
Other business receipts	4					
Land receipts ³	4					
Net value of construction work	3, 4	3	7	8		12
Value added	3, 4	3	7	8		12
Rental payments:						
Total	3, 4	3	7	8		
For machinery and equipment	4					
For buildings	4					
Repairs to buildings and other structures	4					
Repairs to machinery and equipment	4					
Subcontract work to others, payments for	3, 4	3	7	8	12	

Note: Data for 1982 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work. Ownership—private or government owned.

²CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan Statistical area.

³Land receipts are shown separately for SIC's 1531 and 6552 only.

REGIONS AND CENSUS DIVISIONS OF THE UNITED STATES



U.S. DEPARTMENT OF COMMERCE
Bureau of the Census

* The Midwest Region was designated as the North Central Region until June 1984.

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Connecticut

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Connecticut. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 34,081 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$12.0 million in total value of business done.

Most of the 34,081 construction establishments were small. Of the total, 23,326 were nonemployers, and over half of the employer establishments had less than 5 employees. The 4,621 construction establishments with 5 employees or more, while representing only 14 percent of all establishments, accounted for more than 71 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$9.9 billion on total dollar value of business done. Of this amount, \$9.5 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.2 billion, leaving net value of construction work of \$7.3 billion. In addition, these establishments paid out \$3.0 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$4.8 billion. (See Introduction and appendixes for explanation of terms.)

There were 10,755 establishments with total employment averaging 89,494 during the year. Total payroll for 1987 was \$2.3 billion. Total hours worked by construction workers during the year were 122 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 23,326 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$2.1 billion. Most of these establishments, about 77 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

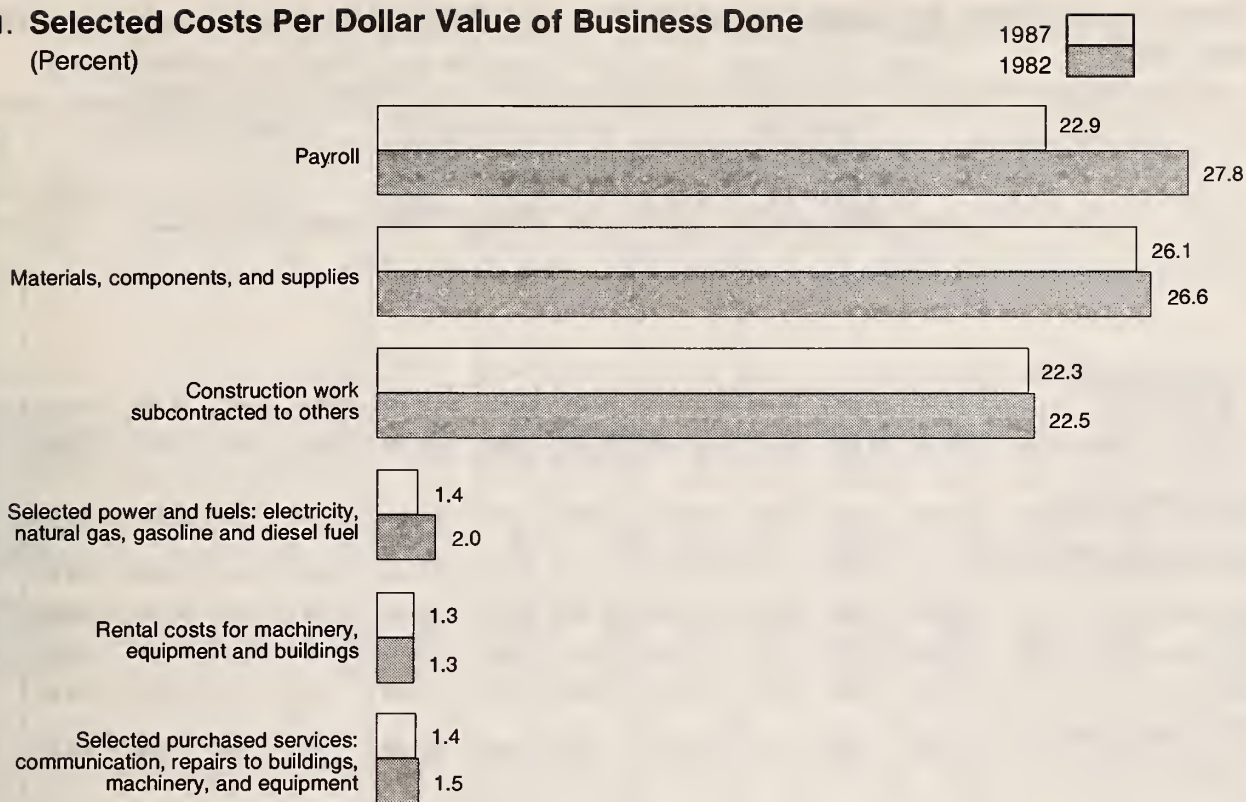


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

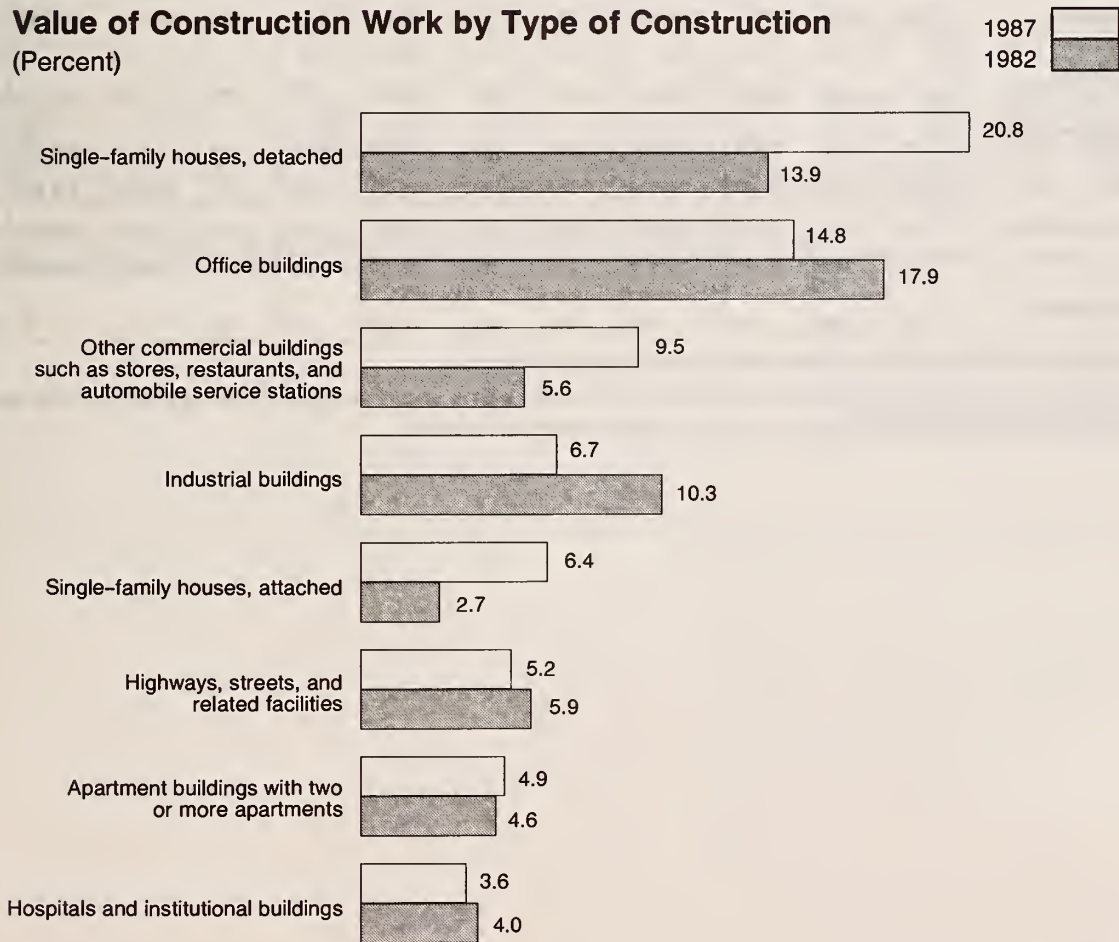


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction industries and land subdividers and developers -----	34 081	25 401	89 494	12 021 367	23 326	23 014	2 111 457	10 755	2 387	89 494	9 909 910	1	1
15, 16, 17	Construction Industries -----	33 019	24 428	88 637	11 315 488	22 454	22 088	1 517 967	10 565	2 340	88 637	9 797 521	1	1
15	Building construction—General contractors and operative builders ----	7 492	4 386	25 587	5 237 886	4 297	3 765	706 501	3 195	621	25 587	4 531 385	2	2
16	Heavy construction other than building construction— contractors -----	731	240	12 698	1 367 265	152	144	21 398	579	96	12 698	1 345 867	2	1
17	Special trade contractors -----	24 796	19 802	50 352	4 710 338	18 005	18 179	790 069	6 791	1 623	50 352	3 920 269	1	1
1711	Plumbing, heating, and air-conditioning --	2 536	1 487	11 107	1 030 821	1 251	1 242	73 137	1 285	245	11 107	957 684	2	2
1731	Electrical work -----	2 085	1 243	8 534	692 060	1 068	1 067	45 609	1 017	176	8 534	646 451	2	2
6552	Land subdividers and developers, n.e.c.² -----	1 049	965	845	705 867	872	926	593 490	177	39	845	112 377	7	13
	1982													
	Construction industries and land subdividers and developers -----	19 033	13 968	61 233	4 711 061	11 831	11 711	517 417	7 202	2 257	61 233	4 193 644	1	1
15, 16, 17	Construction Industries -----	18 764	13 767	60 911	4 620 640	11 619	11 513	449 680	7 145	2 254	60 911	4 170 960	1	1
15	Building construction—General contractors and operative builders ----	3 937	2 432	12 736	1 503 941	2 199	2 033	184 476	1 738	399	12 736	1 319 465	3	2
16	Heavy construction other than building construction— contractors -----	795	549	15 424	966 350	458	465	25 693	337	84	15 424	940 657	1	1
17	Special trade contractors -----	14 032	10 786	32 751	2 150 349	8 962	9 015	239 511	5 070	1 771	32 751	1 910 838	2	2
1711	Plumbing, heating, and air-conditioning --	1 869	1 174	7 151	525 966	904	898	33 045	965	276	7 151	492 921	3	2
1731	Electrical work -----	1 414	922	5 452	366 712	736	728	20 733	678	194	5 452	345 979	3	3
6552	Land subdividers and developers, n.e.c.² -----	263	199	(S)	(S)	212	198	67 737	51	(S)	(S)	(S)	(S)	(S)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	34 081	25 401	89 494	12 021 367	23 326	23 014	2 111 457	10 755	2 387	89 494	9 909 910	1	1
\$10,000,000 or more	123	4	17 903	(D)	2	-	(D)	121	(D)	17 903	3 021 391	(W)	(W)
\$5,000,000 to \$9,999,999	193	30	8 040	4 398 585	27	19	229 148	166	15	8 040	1 148 046	1	3
\$2,500,000 to \$4,999,999	507	64	11 966	1 735 374	50	30	175 383	457	*34	11 966	1 559 991	2	3
\$1,000,000 to \$2,499,999	1 379	310	16 009	2 146 630	203	159	309 537	1 176	151	16 009	1 837 093	2	3
\$500,000 to \$999,999	1 816	515	12 571	1 272 724	363	312	250 602	1 453	203	12 571	1 022 122	4	4
\$250,000 to \$499,999	2 832	1 362	10 278	992 410	834	780	288 093	1 998	582	10 278	704 317	4	4
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	2 361	2 316	362 560	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	3 246	3 277	227 138	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	4 333	4 354	154 524	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000	(S)	(S)	(S)	(S)	11 907	11 767	114 471	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	5 032	4 964	84 262	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 819	2 797	20 534	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 816	1 800	6 653	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	2 240	2 206	3 022	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	19 033	13 968	61 233	4 711 061	11 831	11 711	517 417	7 202	2 257	61 233	4 193 644	1	1
\$10,000,000 or more	41	2	18 206	12 517	1	-	(D)	40	2	18 206	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	69	-	4 038	1 942 062	3	-	16 464	66	-	4 038	1 925 598	(W)	(W)
\$2,500,000 to \$4,999,999	119	8	4 673	(D)	4	6	15 653	115	2	4 673	(D)	(W)	(D)
\$1,000,000 to \$2,499,999	432	42	7 945	1 049 540	29	22	43 381	403	*20	7 945	1 006 159	2	2
\$500,000 to \$999,999	710	110	7 139	489 837	65	56	44 889	645	54	7 139	444 948	4	4
\$250,000 to \$499,999	1 202	322	6 638	416 533	166	150	56 401	1 036	172	6 638	360 132	5	5
\$100,000 to \$249,999	2 594	1 230	7 475	412 346	649	594	95 638	1 945	636	7 475	316 708	4	4
\$50,000 to \$99,999	2 705	2 062	2 845	191 919	1 317	1 355	89 975	1 388	707	2 845	101 944	6	5
\$25,000 to \$49,999	2 853	2 467	1 301	102 041	2 103	2 126	73 720	750	341	1 301	28 321	8	7
Less than \$25,000	8 307	7 724	971	78 611	7 494	7 402	68 779	813	322	971	9 832	7	7
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 190	3 160	50 795	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 832	1 810	12 541	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 550	1 536	4 521	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	922	896	922	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	10 755	89 494	70 271	2 267 162	1 587 610	121 894	9 549 266	7 335 639
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	1 859	9 836	7 831	183 708	126 031	12 549	997 480	731 743
1522	Other residential buildings-----	199	1 540	1 183	37 229	20 807	1 739	304 677	164 073
1531	Operative builders-----	635	4 165	2 241	126 084	47 378	3 936	897 440	561 724
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	105	1 356	1 012	36 396	25 558	1 824	193 194	117 257
1542	Nonresidential buildings, n.e.c.-----	397	8 690	6 537	267 371	175 346	11 419	1 894 541	975 944
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	215	4 047	3 435	121 973	91 635	6 285	528 259	452 612
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	24	1 068	884	35 191	27 122	1 883	150 625	134 975
1623	Water, sewer, and utility lines-----	119	2 303	1 855	56 080	42 506	3 475	214 898	195 624
1629	Heavy construction, n.e.c.-----	221	5 280	4 588	150 855	126 683	7 651	437 511	401 037
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	1 285	11 107	8 394	299 106	203 449	15 727	949 573	855 526
1721	Painting and paper hanging -----	679	3 457	2 877	67 260	53 012	4 553	178 456	161 223
1731	Electrical work -----	1 017	8 534	6 768	232 525	176 867	12 299	641 327	627 963
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	448	2 708	2 348	55 670	45 595	3 602	163 769	156 216
1742	Plastering, drywall, and insulation work-----	240	3 663	3 076	106 518	75 871	5 172	331 590	286 680
1743	Terrazzo, tile, marble, and mosaic work-----	89	301	243	7 584	5 820	461	24 668	23 780
175	Carpentry and floor work:								
1751	Carpentry -----	1 075	4 923	4 178	87 746	67 560	7 027	291 112	252 256
1752	Floor laying and other floor work-----	162	1 125	904	23 086	16 303	1 384	84 472	79 385
1761	Roofing, siding, and sheet metal work -----	419	3 520	2 844	80 080	56 530	4 345	276 709	254 974
1771	Concrete work -----	451	2 970	2 439	66 927	51 099	4 408	234 193	223 414
1781	Water well drilling -----	49	315	234	7 757	4 991	426	30 642	30 113
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	81	1 062	862	29 339	21 938	1 622	89 965	81 028
1793	Glass and glazing work -----	69	620	438	17 148	11 456	792	56 707	56 071
1794	Excavation work -----	354	2 570	2 075	67 546	49 444	4 053	243 550	225 495
1795	Wrecking and demolition work -----	20	270	213	7 225	5 545	417	22 012	19 797
1796	Installing building equipment, n.e.c.-----	59	823	636	27 759	21 268	1 252	80 494	77 644
1799	Special trade contractors, n.e.c.-----	294	2 384	1 894	49 446	33 666	3 146	162 704	145 702
6552	Land subdividers and developers, n.e.c.-----	177	845	267	19 540	4 118	432	68 686	43 369

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
4 793 254	2 722 369	2 213 627	132 181	192 996	1 160 941	61 233	4 052 488	2 027 595	1	1	3	15, 16, 17
												15
428 651 103 482	329 087 62 500	265 737 140 604	8 670 1 519	17 838 3 406	93 817 11 582	4 345 723	261 419 101 791	106 320 27 886	4 8	4 10	11 22	152 1521 1522
273 286	319 949	335 715	4 439	12 018	93 858	1 440	124 256	39 033	6	6	15	1531
82 871 694 447	44 173 314 248	75 937 918 596	1 765 15 630	3 825 21 359	22 234 113 758	1 022 5 206	110 877 697 020	38 449 185 836	10 2	10 1	9 3	154 1541 1542
												16
285 564	173 720	75 647	16 145	20 548	149 701	3 214	259 879	164 810	3	3	5	1611
90 928 139 151 343 760	(D) 59 770 59 920	15 650 19 273 36 473	4 449 9 781 6 952	4 204 10 927 13 002	29 296 71 123 66 024	682 1 238 (D)	60 953 72 833 (D)	18 418 42 568 (D)	7 4 2	2 4 2	1 12 11	162 1622 1623 1629
												17
501 254	362 383	94 046	13 709	14 533	85 310	7 151	470 383	263 047	2	2	7	1711
125 084	38 316	17 232	2 043	2 915	17 617	2 090	70 872	51 081	5	4	15	1721
414 076	219 011	13 363	6 191	10 965	56 160	5 452	344 373	195 638	2	2	8	1731
106 084 187 487 14 824	51 949 103 979 (D)	7 553 44 909 888	2 397 3 742 207	2 440 3 192 575	13 179 19 964 2 648	1 373 2 164 167	54 310 115 386 9 639	34 586 70 363 5 200	4 3 7	4 3 9	16 9 16	174 1741 1742 1743
160 913 48 668	98 589 33 096	38 855 5 087	2 554 720	4 355 1 078	24 972 6 415	2 477 605	97 612 34 799	54 588 16 251	5 11	5 5	13 21	175 1751 1752
160 446	95 379	21 735	4 383	4 883	25 872	2 657	152 484	83 832	5	4	15	1761
148 811	77 150	10 778	4 048	9 671	59 656	2 032	104 364	61 905	5	6	15	1771
19 203	(D)	529	282	2 031	10 185	191	9 430	5 645	8	6	12	1781
50 868 30 506 170 988 18 443 56 926 103 898	32 566 27 433 61 500 *2 957 24 009 48 219	8 936 636 18 054 *2 215 2 850 17 001	2 370 816 15 129 260 1 005 2 610	1 306 798 21 167 584 702 2 922	13 856 3 705 115 566 5 579 7 892 16 332	867 306 2 118 116 1 301 (D)	82 674 16 742 137 722 7 458 81 174 (D)	32 715 8 390 90 202 6 669 62 627 (D)	6 6 9 12 5 6	4 6 8 14 4 5	7 17 18 6 35 20	179 1791 1793 1794 1795 1796 1799
32 642	15 875	25 317	355	1 742	24 630	(S)	(S)	(S)	7	10	26	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	10 755	7 202	7 473	7 962	1	2	3	3
Proprietors and working partners	2 387	2 257	3 549	4 075	5	4	5	5
All employees**	89 494	61 233	50 517	61 503	1	1	1	2
Construction workers:								
March	62 409	44 996	32 607	41 421	1	1	1	2
May	72 190	52 721	43 386	49 903	1	1	1	2
August	74 988	53 022	46 053	56 421	1	1	1	2
November	71 498	49 970	44 908	53 263	1	1	1	2
Average	70 271	50 924	41 805	51 038	1	1	1	2
Other employees:								
March	18 825	10 273	8 287	9 806	1	2	2	3
May	19 047	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	19 575	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	19 446	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	19 223	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	26 068	17 802	(NA)	(NA)	1	1	(NA)	(NA)
April to June	31 078	21 452	(NA)	(NA)	1	1	(NA)	(NA)
July to September	33 154	22 287	(NA)	(NA)	1	1	(NA)	(NA)
October to December	31 593	20 909	(NA)	(NA)	1	2	(NA)	(NA)
Total hours worked	121 894	82 451	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	2 267 162	1 166 941	678 317	679 359	1	1	1	2
Payroll, construction workers	1 587 610	936 845	537 336	553 120	1	1	1	2
Payroll, other employees	679 551	230 095	140 981	126 239	1	1	1	2
First quarter payroll, all employees	476 999	251 917	131 837	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	530 992	221 813	130 036	(NA)	1	1	1	(NA)
Legally required expenditures	353 932	169 002	78 092	(NA)	1	1	1	(NA)
Voluntary expenditures	177 059	52 810	51 945	(NA)	1	1	1	(NA)
Dollar value of business done	9 909 910	4 193 644	2 623 870	2 380 659	1	1	1	2
Value of construction work ¹	9 549 266	4 052 488	2 533 900	2 330 673	1	1	1	2
Value of construction work subcontracted in from others	2 268 914	985 636	527 921	621 551	2	(W)	(NA)	(NA)
Land receipts ²	180 659	24 031	(NA)	(NA)	7	2	1	2
Other business receipts	179 984	117 125	89 970	49 986	3	1	4	12
Net value of construction†	7 335 639	3 107 009	1 979 826	1 752 627	1	1	1	2
Value added††	4 793 254	2 027 595	1 194 620	1 141 767	1	1	1	2
Selected costs	4 935 996	2 142 018	1 392 047	1 224 815	1	1	1	2
Materials, components, and supplies ³	2 582 005	1 114 575	793 382	646 769	1	1	1	2
Construction work subcontracted to others	2 213 627	945 478	554 074	578 046	2	1	2	3
Selected power, fuels, and lubricants	140 363	81 964	44 591	(NA)	1	2	2	(NA)
Electricity	21 446	12 311	5 630	(NA)	2	2	3	(NA)
Natural gas	4 501	2 518	1 664	(NA)	2	4	7	(NA)
Gasoline and diesel fuel	105 365	61 417	31 211	(NA)	2	2	2	(NA)
On highway use	77 380	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use	27 985	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	9 051	5 717	6 087	(NA)	3	4	5	(NA)
Rental cost for machinery, equipment, and buildings	132 181	55 718	33 890	(NA)	3	2	1	(NA)
For machinery and equipment	88 726	42 891	27 169	22 283	4	2	1	4
For buildings	43 455	12 827	6 721	(NA)	3	3	3	(NA)
Selected purchased services	140 936	61 807	44 625	(NA)	2	2	2	(NA)
Communication services	43 799	18 525	13 142	(NA)	2	2	2	(NA)
Repairs to buildings and other structures	8 779	3 356	2 101	(NA)	6	4	6	(NA)
Repairs to machinery and equipment	88 357	39 925	29 382	(NA)	2	2	2	(NA)
Ownership of construction projects:								
Value of construction work	9 549 266	4 052 488	2 533 900	2 330 673	1	1	1	2
Government owned	1 389 174	846 191	509 312	712 044	2	3	1	2
Federal	304 024	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	1 085 150	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Privately owned	8 160 091	3 206 297	2 024 588	1 618 629	1	1	1	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. **Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	1 011 726	682 455	2	2
Capital expenditures, other than land -----	192 996	58 576	3	3
New -----	162 477	42 873	3	4
Used -----	30 519	15 702	6	6
Retirements and disposition of depreciable assets -----	43 781	34 133	8	9
End-of-year gross book value of depreciable assets -----	1 160 941	706 898	2	2
Depreciation charges during year -----	153 151	81 882	3	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	226 954	130 884	6	5
Capital expenditures, other than land -----	31 238	6 152	10	3
New buildings and other structures -----	25 682	4 725	12	3
Used buildings and other structures -----	5 555	1 427	9	6
Retirements and disposition of depreciable assets -----	10 927	*6 107	28	52
End-of-year gross book value of depreciable assets -----	247 265	130 930	6	3
Depreciation charges during year -----	24 534	10 346	11	3
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	784 771	551 570	2	2
Capital expenditures, other than land -----	161 758	52 423	3	4
New machinery and equipment, including automobiles and trucks -----	136 794	38 148	3	5
New automobiles and trucks, intended primarily for highway use -----	69 324	18 505	4	5
Used machinery and equipment, including automobiles and trucks -----	24 964	14 275	6	7
Retirements and disposition of depreciable assets -----	32 853	28 026	5	5
End-of-year gross book value of depreciable assets -----	913 676	575 967	2	2
Depreciation charges during year -----	128 616	71 536	2	3

Table 6. **Value of Inventories for Establishments With Payroll: 1987 and 1986**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	10 755	1
Value of construction work	9 549 266	1
Establishments with inventories:		
Number	3 746	3
Value of construction work	4 448 129	2
Inventories ¹ :		
End of 1987, materials and supplies	124 906	5
End of 1986, materials and supplies	99 827	5
Establishments with no inventories:		
Number	5 225	3
Value of construction work	3 540 995	2
Establishments not reporting:		
Number	1 784	5
Value of construction work	1 560 142	3

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	10 755	6 132	2 426	1 354	644	134	50	10	1	2
All employees**	89 494	12 528	15 490	17 726	18 713	8 979	7 462	8 593	(D)	(D)
Payroll, all employees	2 267 162	225 672	318 249	441 223	513 958	272 224	234 062	261 773	(D)	(D)
Construction worker hours (thousands)	121 894	15 940	19 506	24 717	25 451	12 881	10 809	12 587	(D)	(D)
Dollar value business done	9 909 910	1 382 595	1 372 352	1 903 497	2 179 547	1 215 057	958 049	898 810	(D)	(D)
Value of construction work ¹	9 549 266	1 297 640	1 313 705	1 824 121	2 118 358	1 180 284	1 815 155	(D)	(D)	(D)
Net value of construction work†	7 335 639	1 034 658	1 050 125	1 473 879	1 609 088	845 366	589 875	732 647	(D)	(D)
Value added††	4 793 254	610 829	630 043	962 366	1 045 541	558 948	389 652	595 874	(D)	(D)
Cost of materials, components, supplies, and fuels	2 722 369	440 296	444 131	554 376	595 864	687 701	(D)	(D)	(D)	(D)
Cost of construction work subcontracted to others	2 213 627	262 981	263 580	350 242	509 270	334 918	492 633	(D)	(D)	(D)
Rental cost for machinery, equipment, and buildings	132 181	15 031	17 436	27 131	28 640	16 262	14 087	13 592	(D)	(D)
Capital expenditures, other than land	192 996	27 229	34 177	42 962	48 317	13 168	17 324	9 818	(D)	(D)
End-of-year gross book value of depreciable assets	1 160 941	197 430	195 147	240 060	251 586	101 129	134 347	41 240	(D)	(D)
1982										
All employees**	61 233	9 662	8 843	8 901	9 776	5 804	3 405	2 665	12 176	(D)
Value of construction work ¹	4 052 488	516 791	483 059	577 001	701 154	554 019	334 704	350 634	(D)	535 125
Value added††	2 027 595	247 212	257 354	276 406	337 146	249 055	121 159	175 645	(D)	363 617
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	2	4	3	2	(W)	(W)	(W)	(D)	(D)
Net value of construction work†	1	4	4	3	1	(W)	(W)	(W)	(D)	(D)
Capital expenditures, other than land	3	11	8	9	4	3	(W)	(W)	(D)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	10 755	(S)	(S)	(S)	(S)	1 998	1 453	1 176	457	166	121
All employees**	89 494	(S)	(S)	(S)	(S)	10 278	12 571	16 009	11 966	8 040	17 903
Payroll, all employees	2 267 162	(S)	(S)	(S)	(S)	189 290	271 169	425 315	358 429	256 867	587 641
Construction worker hours (thousands)	121 894	(S)	(S)	(S)	(S)	13 849	17 329	21 138	16 782	11 152	26 083
Dollar value of business done	9 909 910	(S)	(S)	(S)	(S)	704 317	1 022 122	1 837 093	1 559 991	1 148 046	3 021 391
Value of construction work ¹	9 549 266	(S)	(S)	(S)	(S)	683 254	984 282	1 743 311	1 498 531	1 103 711	2 929 489
Net value of construction work†	7 335 639	(S)	(S)	(S)	(S)	603 098	853 098	1 412 142	1 173 793	806 650	1 929 105
Value added††	4 793 254	(S)	(S)	(S)	(S)	380 886	537 394	882 241	746 965	504 412	1 385 329
Cost of materials, components, supplies, and fuels	2 722 369	(S)	(S)	(S)	(S)	234 783	332 421	567 201	448 810	319 939	611 361
Cost of construction work subcontracted to others	2 213 627	(S)	(S)	(S)	(S)	80 155	131 184	331 169	324 738	297 061	1 000 384
Rental cost for machinery, equipment, and buildings	132 181	(S)	(S)	(S)	(S)	9 702	18 427	24 342	24 421	13 428	34 669
Capital expenditures, other than land	192 996	(S)	(S)	(S)	(S)	20 132	31 285	37 628	29 929	21 775	37 848
End-of-year gross book value of depreciable assets	1 160 941	(S)	(S)	(S)	(S)	113 036	184 320	219 397	181 455	128 092	239 125
1982											
All employees**	61 233	971	1 301	2 845	7 475	6 638	7 139	7 945	4 673	4 038	18 206
Value of construction work ¹	4 052 488	9 662	28 109	101 088	311 551	350 287	435 723	589 944	387 211	440 690	1 398 222
Value added††	2 027 595	5 273	16 060	56 594	167 079	186 066	221 570	286 577	200 988	191 597	695 788
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	(S)	4	4	2	2	1	(W)
Net value of construction work†	1	(S)	(S)	(S)	(S)	4	4	3	3	2	(W)
Capital expenditures, other than land	3	(S)	(S)	(S)	(S)	11	14	7	5	5	1

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair	A	B	C	D
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	9 549 266	5 822 082	2 145 684	1 046 318	1	1	2	2
Building construction	7 343 168	4 888 059	1 767 564	629 617	1	1	2	2
Single-family houses.....	2 593 249	1 863 705	543 552	185 991	2	3	4	5
Single-family houses, detached.....	1 981 997	1 342 060	478 052	161 884	3	3	5	5
Single-family houses, attached.....	611 252	521 644	65 499	24 107	5	6	10	6
Apartment buildings with two or more apartments.....	467 155	301 746	121 893	43 515	5	7	8	7
Other residential buildings, including hotels and motels.....	326 288	229 374	73 101	23 812	6	5	19	6
Hotels and motels.....	98 512	68 668	21 157	8 686	8	11	10	11
Other residential buildings, excluding hotels and motels.....	227 775	160 705	51 944	15 126	7	6	27	8
Office buildings.....	1 416 266	1 021 155	299 873	95 237	1	1	3	3
Other commercial buildings such as stores, restaurants, and automobile service stations.....	905 688	544 458	258 205	103 024	2	2	3	4
Industrial buildings and warehouses.....	763 155	462 279	200 791	100 084	3	4	2	4
Industrial buildings.....	635 750	367 258	180 640	87 851	3	4	2	4
Warehouses.....	127 405	95 020	20 150	12 233	5	6	8	7
Religious buildings.....	64 358	26 156	26 450	11 751	3	3	4	7
Educational buildings.....	282 873	141 901	111 842	29 130	3	4	3	10
Hospitals and institutional buildings.....	339 195	222 826	92 168	24 200	2	1	8	5
Other nonresidential buildings.....	127 017	74 459	39 686	12 877	4	4	3	24
Land development for buildings.....	57 924	(NA)	(NA)	(NA)	21	(NA)	(NA)	(NA)
Nonbuilding construction	1 728 839	934 022	378 119	416 697	1	2	3	2
Highways, streets, and related facilities.....	500 133	205 926	192 817	101 389	3	5	4	4
Outdoor swimming pools.....	49 885	36 545	2 496	10 843	9	9	14	15
Parking areas including private driveways.....	72 847	47 697	12 684	12 466	12	14	17	17
Bridges and elevated highways.....	135 128	58 759	24 032	52 335	3	2	8	7
Power and communication transmission lines, towers, and related facilities.....	141 477	74 773	48 856	17 846	2	2	2	12
Sewers, water mains, and related facilities.....	208 747	145 899	38 044	24 802	4	3	6	13
Sewers, sewer lines, and related facilities.....	124 529	88 837	23 595	12 095	3	3	6	13
Water mains and related facilities.....	84 218	57 061	14 449	12 707	7	5	13	17
Power plants.....	281 885	117 521	(D)	(D)	(W)	(W)	(D)	(D)
Sewage treatment and water treatment plants.....	66 783	37 237	27 733	1 812	6	8	10	12
Sewage treatment plants.....	45 219	17 723	26 312	1 183	8	16	9	9
Water treatment plants.....	21 564	19 513	*1 420	629	4	2	46	28
Earthmoving, nonbuilding.....	38 407	32 487	(D)	(D)	12	12	(D)	(D)
Other nonbuilding construction.....	233 547	177 178	22 680	33 699	7	8	10	14
Construction work, n.s.k.	477 257	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	4 052 488	3 142 850	(NA)	909 637	1	1	(NA)	2
Building construction	2 786 333	2 224 554	(NA)	561 779	1	1	(NA)	2
Single-family houses.....	671 390	505 267	(NA)	166 122	3	4	(NA)	4
Single-family houses, detached.....	561 405	412 718	(NA)	148 687	4	4	(NA)	4
Single-family houses, attached.....	109 984	92 549	(NA)	17 435	7	8	(NA)	8
Apartment buildings with two or more apartments.....	186 754	143 817	(NA)	42 937	3	3	(NA)	5
Other residential buildings, including hotels and motels.....	94 116	81 925	(NA)	12 191	2	2	(NA)	6
Office buildings.....	727 105	643 778	(NA)	83 326	1	1	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations.....	228 850	175 491	(NA)	53 359	4	4	(NA)	5
Industrial buildings and warehouses.....	477 070	348 268	(NA)	128 801	2	2	(NA)	2
Industrial buildings.....	416 310	298 571	(NA)	117 738	2	2	(NA)	3
Warehouses.....	60 760	49 697	(NA)	11 063	4	4	(NA)	6
Religious buildings.....	35 689	21 914	(NA)	13 775	9	9	(NA)	19
Educational buildings.....	135 881	103 686	(NA)	32 194	2	2	(NA)	8
Hospitals and institutional buildings.....	163 036	143 463	(NA)	19 572	3	2	(NA)	5
Amusement, social, and recreational buildings.....	18 648	15 167	(NA)	3 481	24	29	(NA)	16
Other nonresidential buildings.....	47 794	41 778	(NA)	6 021	3	3	(NA)	11
Nonbuilding construction	983 736	687 094	(NA)	296 641	1	1	(NA)	2
Highways, streets, and related facilities.....	238 712	112 927	(NA)	125 784	3	4	(NA)	4
Bridges, tunnels, and elevated highways.....	76 094	62 932	(NA)	13 162	2	2	(NA)	2
Tunnels.....	8 932	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Bridges and elevated highways.....	67 162	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Power and communication transmission lines, towers, and related facilities.....	29 276	23 047	(NA)	6 229	9	9	(NA)	23
Sewers, water mains, and related facilities.....	96 074	81 320	(NA)	14 753	5	4	(NA)	17
Sewers, sewer lines, and related facilities.....	71 882	62 986	(NA)	8 895	6	5	(NA)	19
Water mains and related facilities.....	24 192	18 333	(NA)	5 858	12	9	(NA)	30
Heavy industrial facilities.....	459 845	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Sewage treatment and water treatment plants.....	26 002	24 179	(NA)	1 822	2	2	(NA)	16
Sewage treatment plants.....	21 486	20 490	(NA)	996	1	1	(NA)	25
Water treatment plants.....	4 515	3 689	(NA)	826	10	12	(NA)	17
Other nonbuilding construction.....	57 733	(D)	(NA)	(D)	18	(D)	(NA)	(D)
Construction work, n.s.k.	282 418	231 202	(NA)	51 215	3	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	10 755	70 271	121 894	62 409	26 068	72 190	31 078
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 859	7 831	12 549	7 141	2 736	7 894	3 197
1522	Other residential buildings -----	199	1 183	1 739	1 089	373	1 225	419
1531	Operative builders -----	635	2 241	3 936	2 135	882	2 554	1 144
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	105	1 012	1 824	871	403	1 004	471
1542	Nonresidential buildings, n.e.c. -----	397	6 537	11 419	6 232	2 676	6 218	2 657
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	215	3 435	6 285	2 144	873	3 585	1 615
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	24	884	1 883	568	297	909	497
1623	Water, sewer, and utility lines -----	119	1 855	3 475	1 639	719	1 912	889
1629	Heavy construction, n.e.c. -----	221	4 588	7 651	3 963	1 443	5 650	2 171
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	1 285	8 394	15 727	8 215	3 818	8 350	3 865
1721	Painting and paper hanging -----	679	2 877	4 553	2 496	955	3 042	1 193
1731	Electrical work -----	1 017	6 768	12 299	6 383	2 910	6 461	2 998
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	448	2 348	3 602	1 922	708	2 496	988
1742	Plastering, drywall, and insulation work --	240	3 076	5 172	2 831	1 206	2 995	1 298
1743	Terrazzo, tile, marble, and mosaic work --	89	243	461	245	119	295	129
175	Carpentry and floor work:							
1751	Carpentry -----	1 075	4 178	7 027	3 927	1 558	4 309	1 743
1752	Floor laying and other floor work -----	162	904	1 384	901	335	927	353
1761	Roofing, siding, and sheet metal work -----	419	2 844	4 345	2 274	828	2 932	1 090
1771	Concrete work -----	451	2 439	4 408	1 527	642	2 630	1 190
1781	Water well drilling -----	49	234	426	221	95	240	107
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	81	862	1 622	752	349	824	395
1793	Glass and glazing work -----	69	438	792	458	186	405	191
1794	Excavation work -----	354	2 075	4 053	1 659	748	2 146	1 077
1795	Wrecking and demolition work -----	20	213	417	214	103	216	107
1796	Installing building equipment, n.e.c. -----	59	636	1 252	703	339	649	319
1799	Special trade contractors, n.e.c. -----	294	1 894	3 146	1 666	668	2 036	852
6552	Land subdividers and developers, n.e.c. --	177	267	432	224	84	274	108

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column--										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
74 988	33 154	71 498	31 593	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
8 545 1 278	3 497 484	7 747 1 140	3 117 461	4 8	5 12	4 9	5 12	4 9	6 13	4 8	6 12	4 9	6 13	152 1521 1522
2 320	1 016	1 955	893	7	9	7	9	10	13	7	8	7	9	1531
														154
1 098 7 020	470 3 061	1 076 6 678	479 3 023	10 2	9 2	11 2	9 2	10 2	9 2	10 2	9 2	8 2	9 2	1541 1542
														16
4 226	2 024	3 788	1 771	3	4	4	5	3	4	3	4	3	4	1611
														162 1622
999 1 984 3 888	563 945 1 773	1 062 1 886 4 852	525 920 2 262	7 3 2	12 4 3	3 3 2	7 4 4	6 3 2	13 4 3	8 3 3	14 4 3	9 3 2	13 3	1623 1629
														17
8 615	4 059	8 397	3 983	2	3	2	2	2	3	2	3	2	3	1711
3 341	1 359	2 629	1 044	5	6	6	7	6	6	5	7	5	7	1721
6 971	3 215	7 255	3 175	2	3	2	3	2	3	2	3	3	3	1731
														174
2 492 3 374 222	959 1 400 106	2 481 3 107 209	945 1 267 106	4 3 8	5 5 8	5 3 10	6 5 7	5 4 14	6 6 14	4 4 6	5 5 8	5 4 8	7 5 8	1741 1742 1743
4 430 925	1 907 364	4 047 862	1 817 331	5 12	7 9	5 8	7 8	5 14	7 11	5 12	7 8	5 14	8 11	175 1751 1752
3 214	1 294	2 958	1 131	5	6	5	6	4	5	5	6	5	7	1761
2 920	1 346	2 677	1 228	5	6	7	9	5	7	5	7	5	6	1771
251	116	225	107	6	4	7	3	6	3	6	4	7	4	1781
														179
985 427 2 306 212 585 2 036	446 199 1 160 102 288 861	885 463 2 189 209 609 1 842	430 213 1 066 104 304 763	6 5 9 13 5 6	8 6 7 14 8 8	6 7 10 12 5 6	8 7 10 13 8 8	6 5 9 14 5 6	8 8 9 15 7 8	7 5 9 15 5 6	10 7 9 16 8 9	6 5 9 13 4 6	7 5 9 14 9 8	1791 1793 1794 1795 1796 1799
312	124	258	114	13	14	12	15	14	15	15	17	12	14	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	8.3	25.3	1 734.6	135.9	.237	.285	.232	.014
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	5.3	18.7	1 602.5	127.4	.184	.330	.266	.009
1522	Other residential buildings	7.7	24.2	1 470.0	257.5	.122	.205	.461	.005
1531	Operative builders	6.6	30.3	1 756.4	400.5	.140	.357	.374	.005
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	12.9	26.8	1 802.4	190.9	.188	.229	.393	.009
1542	Nonresidential buildings, n.e.c.	21.9	30.8	1 746.8	289.8	.141	.166	.485	.008
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	18.8	30.1	1 829.7	153.8	.231	.329	.143	.031
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	44.5	33.0	2 130.1	170.4	.234	(D)	.104	.030
1623	Water, sewer, and utility lines	19.4	24.4	1 873.3	115.8	.261	.278	.090	.046
1629	Heavy construction, n.e.c.	23.9	28.6	1 667.6	95.4	.345	.137	.083	.016
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	8.6	26.9	1 873.6	113.1	.315	.382	.099	.014
1721	Painting and paper hanging	5.1	19.5	1 582.6	62.0	.377	.215	.097	.011
1731	Electrical work	8.4	27.2	1 817.2	94.8	.363	.341	.021	.010
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	6.0	20.6	1 534.1	69.7	.340	.317	.046	.015
1742	Plastering, drywall, and insulation work	15.3	29.1	1 681.4	107.8	.321	.314	.135	.011
1743	Terrazzo, tile, marble, and mosaic work	3.4	25.2	1 897.1	101.5	.307	(D)	.036	.008
175	Carpentry and floor work:								
1751	Carpentry	4.6	17.8	1 681.9	69.7	.301	.339	.133	.009
1752	Floor laying and other floor work	6.9	20.5	1 531.0	93.4	.273	.392	.060	.009
1761	Roofing, siding, and sheet metal work	8.4	22.8	1 527.8	97.3	.289	.345	.079	.016
1771	Concrete work	6.6	22.5	1 807.3	96.0	.286	.329	.046	.017
1781	Water well drilling	6.4	24.6	1 820.5	130.9	.253	(D)	.017	.009
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	13.1	27.6	1 881.7	104.4	.326	.362	.099	.026
1793	Glass and glazing work	9.0	27.7	1 808.2	129.5	.302	.484	.011	.014
1794	Excavation work	7.3	26.3	1 953.3	117.4	.277	.253	.074	.062
1795	Wrecking and demolition work	13.5	26.8	1 957.7	103.3	.328	*.134	*.101	.012
1796	Installing building equipment, n.e.c.	13.9	33.7	1 968.6	126.6	.345	.298	.035	.012
1799	Special trade contractors, n.e.c.	8.1	20.7	1 661.0	85.9	.304	.296	.104	.016
6552	Land subdividers and developers, n.e.c.	4.8	23.1	1 618.0	257.3	.284	.231	.369	.005

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added‡	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expendi- tures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	HARTFORD-NEW BRITAIN- MIDDLETOWN, CT CMSA											
	Construction industries and land subdividers and developers	3 630	34 270	886 759	3 545 638	2 798 183	1 892 320	979 362	747 455	72 837	1	1
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	549	3 030	59 822	317 991	240 365	153 840	104 794	77 626	6 489	7	6
1522	Other residential buildings	58	504	(D)	124 268	59 738	35 709	24 441	64 530	*686	10	11
1531	Operative builders	229	1 285	42 645	313 273	190 913	88 495	106 137	122 361	4 903	12	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	49	714	19 534	122 106	72 831	55 503	25 025	49 274	2 758	16	15
1542	Nonresidential buildings, n.e.c.	113	2 102	63 818	493 157	256 332	194 061	76 334	236 825	5 497	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	67	2 102	65 246	294 250	240 840	149 599	95 067	53 410	13 360	4	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	12	440	13 900	50 298	41 680	21 926	(D)	8 618	1 748	3	3
1623	Water, sewer, and utility lines	46	1 277	25 097	93 357	89 956	64 339	25 773	3 401	2 608	4	4
1629	Heavy construction, n.e.c.	67	3 841	(D)	286 214	277 129	261 550	16 928	9 085	4 812	1	1
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	391	3 319	87 206	292 565	262 927	149 782	116 253	29 638	4 783	3	3
1721	Painting and paper hanging	227	1 231	27 010	67 731	59 063	48 073	12 284	8 668	1 052	10	8
1731	Electrical work	335	2 721	70 904	192 008	188 872	119 641	70 387	3 136	3 429	4	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	160	1 068	24 271	67 863	65 131	43 168	(D)	2 732	1 030	8	6
1742	Plastering, drywall, and insulation work	119	1 741	49 879	149 445	129 003	83 921	46 208	20 442	1 789	6	6
1743	Terrazzo, tile, marble, and mosaic work	27	92	2 162	(D)	(D)	4 204	2 804	(D)	250	19	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork	69	542	11 049	39 786	38 601	22 820	16 852	1 185	545	20	8
1761	Roofing, siding, and sheet metal work	153	1 309	32 572	106 264	98 755	63 284	35 573	7 509	1 545	6	5
1771	Concrete work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1781	Water well drilling	12	84	2 302	10 298	10 185	6 670	(D)	113	1 094	(W)	(W)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	34	660	18 678	54 788	50 756	29 887	21 127	4 032	938	5	3
1793	Glass and glazing work	21	202	6 029	20 224	20 035	8 842	11 982	189	271	10	8
1794	Excavation work	132	1 180	33 651	114 684	104 055	79 657	29 981	10 629	5 797	13	12
1795	Wrecking and demolition work	6	60	1 343	(D)	(D)	(D)	661	(D)	(D)	35	(D)
1796	Installing building equipment, n.e.c.	11	229	8 608	19 844	19 601	13 947	(D)	243	(D)	(W)	(W)
1799	Special trade contractors, n.e.c.	114	1 079	22 942	80 261	69 844	52 650	18 954	10 417	1 304	7	6
6552	Land subdividers and developers, n.e.c.	53	435	11 113	29 647	21 092	18 541	5 179	8 555	521	8	16
	BRISTOL, CT PMSA											
	Construction industries and land subdividers and developers	363	2 149	46 119	170 961	137 370	87 840	53 536	33 591	6 627	4	3
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders	*15	69	1 605	14 093	9 084	(D)	7 323	5 009	48	21	27
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.	13	162	4 300	(D)	(D)	6 917	(D)	(D)	758	17	(D)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	J	K
	BRISTOL, CT PMSA—Con.											
	Construction industries and land subdividers and developers—Con.											
15,16, 17	Construction industries—Con.											
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	5	94	3 098	12 223	10 679	8 015	3 088	1 544	(D)	(W)	(W)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c. -----	6	48	1 203	5 299	(D)	4 316	1 260	(D)	(D)	(W)	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	34	193	4 625	14 530	13 119	6 860	6 466	1 411	*247	16	19
1721	Painting and paper hanging-----	36	133	1 918	5 522	4 942	3 929	1 013	*580	*200	33	32
1731	Electrical work -----	31	166	3 215	9 236	9 162	5 474	3 712	*74	274	23	23
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	18	89	1 126	*4 277	*4 235	*2 619	1 616	*42	*150	33	42
1742	Plastering, drywall, and insulation work -----	5	*46	*653	*2 743	*2 675	*1 377	(D)	68	(D)	65	60
1743	Terrazzo, tile, marble, and mosaic work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork-----	4	6	62	282	282	236	46	-	-	24	16
1761	Roofing, siding, and sheet metal work -----	23	159	4 418	15 056	12 976	8 778	(D)	(S)	*264	14	13
1771	Concrete work -----	18	58	1 036	4 270	4 170	2 323	*1 847	*100	(S)	32	36
1781	Water well drilling -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	8	(D)	(D)	(D)	(D)	(D)	818	(D)	(D)	(D)	(D)
1793	Glass and glazing work -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work -----	-	-	-	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c. -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c. -----	5	(D)	(D)	(D)	(D)	(D)	(D)	91	(D)	(D)	(D)
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	HARTFORD, CT PMSA											
	Construction industries and land subdividers and developers-----	2 466	25 790	686 016	2 762 963	2 150 632	1 477 192	731 107	612 331	47 626	1	1
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	365	2 044	42 354	241 165	181 410	112 753	(D)	59 755	2 432	10	8
1522	Other residential buildings -----	44	440	10 895	111 024	53 706	33 619	20 425	57 318	*682	10	12
1531	Operative builders -----	163	936	35 046	250 781	144 855	62 403	85 904	105 926	4 026	13	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	34	554	14 103	94 223	56 207	44 058	(D)	38 016	1 006	21	19
1542	Nonresidential buildings, n.e.c. -----	81	1 775	55 433	444 033	231 152	178 169	(D)	212 881	4 859	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	51	1 346	40 506	190 481	149 193	96 428	55 690	41 288	9 437	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	*10	173	5 031	19 669	16 755	11 981	(D)	2 914	1 333	8	8
1623	Water, sewer, and utility lines -----	37	1 103	21 244	80 030	77 892	56 373	21 674	2 138	1 910	5	5
1629	Heavy construction, n.e.c. -----	38	(D)	(D)	(D)	(D)	(D)	9 945	(D)	3 083	(D)	(D)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	HARTFORD, CT PMSA—Con.											
	Construction Industries and land subdividers and developers—Con.											
15,16, 17	Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	294	2 567	67 669	222 988	202 265	114 566	89 326	20 723	3 351	3	3
1721	Painting and paper hanging-----	146	827	18 302	45 465	40 302	32 816	8 575	5 163	595	14	10
1731	Electrical work -----	224	1 966	56 350	148 589	145 838	94 393	51 799	2 751	2 122	5	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	99	719	17 781	49 141	46 718	31 274	(D)	2 423	488	9	6
1742	Plastering, drywall, and insulation work -----	84	1 302	38 275	107 325	91 407	60 209	32 206	15 918	1 237	7	8
1743	Terrazzo, tile, marble, and mosaic work -----	12	(D)	1 547	4 770	4 400	2 612	1 787	*370	165	(D)	34
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork-----	58	496	10 539	38 244	37 147	21 798	16 420	1 097	509	22	9
1761	Roofing, siding, and sheet metal work -----	107	1 027	25 662	82 588	78 218	49 569	28 723	4 370	1 233	7	5
1771	Concrete work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1781	Water well drilling -----	8	57	(D)	7 000	6 932	4 589	(D)	68	951	(W)	(W)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	23	477	14 843	39 290	37 674	21 600	(D)	1 616	434	4	2
1793	Glass and glazing work -----	15	178	5 358	17 840	17 676	7 396	10 756	164	230	11	9
1794	Excavation work -----	77	710	21 336	68 827	61 878	46 731	19 489	6 950	2 869	10	9
1795	Wrecking and demolition work -----	6	60	1 343	(D)	(D)	(D)	661	(D)	(D)	35	(D)
1796	Installing building equipment, n.e.c. -	7	211	8 051	18 717	(D)	13 093	5 539	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c.-----	74	863	18 544	65 001	56 336	42 497	15 487	8 664	*861	8	7
6552	Land subdividers and developers, n.e.c. -----	44	296	7 081	16 317	12 240	11 390	2 136	4 077	143	12	27
	MIDDLETOWN, CT PMSA											
	Construction Industries and land subdividers and developers-----	319	1 873	40 572	170 740	141 730	90 224	55 219	29 010	3 892	8	7
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	54	219	3 595	18 588	14 094	7 826	6 988	4 494	(D)	20	21
1522	Other residential buildings -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1531	Operative builders -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	(S)	(D)	(D)	(S)	(S)	(S)	(S)	(S)	(D)	(D)	(S)
1542	Nonresidential buildings, n.e.c. -----	5	37	995	(D)	(D)	1 743	656	(D)	44	(W)	(D)
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	6	(D)	(D)	(D)	(D)	(D)	2 722	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c. -----	*14	(D)	1 795	(D)	(D)	2 977	(D)	(D)	*398	(D)	(D)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MIDDLETOWN, CT PMSA—Con.											
	Construction industries and land subdividers and developers—Con.											
15,16, 17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1721	Painting and paper hanging-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1731	Electrical work -----	34	*169	2 705	*8 267	*8 262	(D)	(D)	*5	(S)	41	42
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	14	73	1 435	4 635	4 609	3 272	1 337	(S)	*187	37	34
1742	Plastering, drywall, and insulation work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	*6	*4	(D)	*328	*288	(D)	(D)	(S)	*51	63	61
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1771	Concrete work -----	17	132	3 085	11 827	11 295	8 599	2 696	*532	503	25	28
1781	Water well drilling -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	-	-	-	-	-	-	-	-	-	-	-
1793	Glass and glazing work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1794	Excavation work -----	21	103	2 501	11 827	11 030	8 261	*3 676	*797	*1 141	33	33
1795	Wrecking and demolition work -----	-	-	-	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c. -	-	-	-	-	-	-	-	-	-	-	-
1799	Special trade contractors, n.e.c.-----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
6552	Land subdividers and developers, n.e.c. -----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	NEW BRITAIN, CT PMSA											
	Construction industries and land subdividers and developers-----	482	4 457	114 050	440 973	368 451	237 064	139 500	72 523	14 692	4	4
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	66	522	9 564	41 099	33 812	25 856	(D)	7 287	(D)	11	6
1522	Other residential buildings -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders -----	*18	83	3 159	*23 063	*16 702	*9 264	*7 439	*6 361	*564	27	45
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	*3	*19	789	*13 256	*3 656	*2 409	*2 484	*9 600	*89	49	51
1542	Nonresidential buildings, n.e.c.-----	15	128	3 091	20 849	9 905	7 233	2 690	10 944	36	22	15
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	10	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1629	Heavy construction, n.e.c. -----	9	186	6 310	20 490	18 971	15 260	(D)	1 519	1 067	(W)	(W)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	NEW BRITAIN, CT PMSA—Con.											
15,16, 17	Construction Industries and land subdividers and developers—Con.											
17	Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	43	419	11 191	42 561	36 136	21 538	(D)	6 425	*904	11	8
1721	Painting and paper hanging	38	231	6 132	15 243	12 524	10 067	2 458	2 719	243	24	17
1731	Electrical work	47	420	8 635	25 916	25 610	14 870	(D)	306	1 029	16	7
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	30	187	3 928	9 810	9 569	6 004	(D)	*241	*205	23	18
1742	Plastering, drywall, and insulation work	14	205	5 582	19 724	18 042	11 215	6 827	1 682	255	19	5
1743	Terrazzo, tile, marble, and mosaic work	8	35	558	(D)	(D)	1 414	852	(D)	(D)	26	(D)
175	Carpentry and floor work:											
1751	Carpentry	56	182	3 202	11 738	9 764	6 291	(D)	*1 974	*204	19	19
1752	Floor laying and other floorwork	4	6	71	569	(D)	142	(D)	(D)	(D)	(W)	(D)
1761	Roofing, siding, and sheet metal work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1771	Concrete work	32	200	3 829	11 179	11 018	7 576	(D)	*160	689	19	7
1781	Water well drilling	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1793	Glass and glazing work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1794	Excavation work	*24	*332	9 211	31 657	28 851	23 272	*5 909	2 807	1 712	41	38
1795	Wrecking and demolition work	-	-	-	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	31	158	3 081	12 084	10 440	7 886	2 642	1 644	412	12	16
6552	Land subdividers and developers, n.e.c.	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	NEW HAVEN-MERIDEN, CT MSA											
	Construction Industries and land subdividers and developers	1 632	14 738	380 345	1 425 001	1 137 747	740 546	427 289	287 254	25 098	2	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	40	190	3 412	22 402	15 009	9 018	6 017	*7 393	*389	33	35
1531	Operative builders	97	1 006	28 645	128 610	90 890	54 954	(D)	37 721	1 328	9	9
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	*15	96	2 981	9 323	5 344	4 054	(D)	3 979	(D)	9	23
1542	Nonresidential buildings, n.e.c.	70	1 257	35 518	223 459	109 763	80 377	31 019	113 697	1 718	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	37	496	14 296	64 130	59 355	40 045	20 446	4 776	2 454	14	10
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	*18	214	6 316	23 301	18 745	13 140	5 656	4 556	1 431	26	18
1629	Heavy construction, n.e.c.	21	180	4 880	20 613	16 806	12 139	4 767	3 707	367	25	22

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	NEW HAVEN-MERIDEN, CT MSA —Con.											
15,16, 17 17	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	214	3 063	90 935	236 236	215 237	126 638	90 323	20 999	2 631	3	3
1721	Painting and paper hanging	102	682	12 507	30 882	28 613	20 641	8 389	*2 270	565	13	10
1731	Electrical work	153	1 492	45 217	128 236	126 884	99 406	28 246	1 352	2 656	3	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	46	313	6 336	20 093	16 573	11 572	6 162	3 520	317	10	10
1742	Plastering, drywall, and insulation work	56	790	22 140	82 697	66 613	40 446	(D)	*16 084	325	7	9
1743	Terrazzo, tile, marble, and mosaic work	8	46	915	2 850	(D)	(D)	1 528	(D)	(D)	(W)	(D)
175	Carpentry and floor work:											
1751	Carpentry	121	752	15 022	50 103	41 731	25 543	16 999	8 372	764	12	10
1752	Floor laying and other floorwork	33	302	7 120	25 011	22 723	15 213	(D)	2 288	321	12	8
1761	Roofing, siding, and sheet metal work	65	690	16 845	59 460	53 497	34 799	19 073	5 963	1 135	8	8
1771	Concrete work	54	266	5 543	20 242	18 973	13 135	5 972	1 269	426	11	12
1781	Water well drilling	*7	*34	(D)	*2 512	*2 512	*1 657	*855	-	(D)	71	66
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*20	157	4 237	11 566	11 318	7 557	(D)	247	168	27	24
1793	Glass and glazing work	20	203	4 770	16 663	16 448	9 991	(D)	215	236	17	16
1794	Excavation work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c.	14	128	4 182	13 717	(D)	10 483	3 884	(D)	*66	23	(D)
1799	Special trade contractors, n.e.c.	52	267	4 534	15 292	14 562	10 047	5 478	731	457	26	27
6552	Land subdividers and developers, n.e.c.	31	60	844	*14 142	*5 461	*1 310	*4 279	*8 681	*689	40	42
	NEW YORK-NORTHERN NEW JERSEY-LONG ISLAND, NY-NJ- CT CMSA											
	Construction industries and land subdividers and developers	42 066	386 766	10 285 662	41 965 365	32 203 048	21 564 684	11 639 884	9 762 317	552 103	(W)	(W)
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	835	6 739	154 460	986 923	494 016	334 551	206 044	492 907	5 112	4	5
1531	Operative builders	1 693	12 625	377 045	3 788 207	2 370 390	1 431 977	1 030 909	1 417 817	35 714	3	4
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	490	6 507	182 470	1 185 836	635 904	425 171	239 547	549 932	10 843	4	3
1542	Nonresidential buildings, n.e.c.	2 054	34 604	1 030 193	7 526 324	3 422 078	2 472 162	1 178 811	4 104 247	45 542	2	1
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	616	14 917	427 997	1 690 116	1 433 914	952 210	548 808	256 202	55 502	2	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	49	3 760	101 340	392 908	323 164	228 476	101 578	69 744	5 469	1	1
1623	Water, sewer, and utility lines	366	7 869	242 870	877 889	795 351	571 543	229 443	82 538	29 876	2	2
1629	Heavy construction, n.e.c.	629	15 139	496 144	1 647 877	1 354 892	1 095 074	373 466	292 985	29 308	1	1

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17	NEW YORK-NORTHERN NEW JERSEY-LONG ISLAND, NY-NJ- CT CMSA—Con.											
	Construction industries and land subdividers and developers—Con.											
	Construction industries—Con.											
	Special trade contractors:											
	1711 Plumbing, heating, and air- conditioning -----	5 754	50 233	1 364 942	4 736 709	4 227 316	2 577 913	1 693 883	509 393	58 216	1	1
	1721 Painting and paper hanging -----	2 585	14 229	298 959	829 629	770 312	593 649	184 311	59 317	8 662	2	2
	1731 Electrical work -----	4 487	53 631	1 700 670	4 384 125	4 283 157	2 947 607	1 362 916	100 969	39 718	1	1
	174 Masonry, stonework, tile setting, and plastering:											
	1741 Masonry, stone setting, and other stonework -----	1 999	14 498	317 299	1 007 195	936 069	624 234	320 151	71 126	17 172	3	2
	1742 Plastering, drywall, and insulation work -----	926	17 666	537 358	1 477 495	1 340 095	941 666	412 024	137 400	13 587	1	2
	1743 Terrazzo, tile, marble, and mosaic work -----	535	3 582	77 230	232 993	223 815	144 186	81 874	9 178	3 687	4	4
	175 Carpentry and floor work:											
	1751 Carpentry -----	3 639	17 888	384 477	1 230 194	1 075 324	682 545	418 946	154 869	15 462	2	2
	1752 Floor laying and other floorwork -----	666	4 885	116 423	433 453	395 276	238 308	166 346	38 176	5 005	7	5
	1761 Roofing, siding, and sheet metal work -----	1 921	15 356	372 262	1 200 945	1 122 432	714 240	420 621	78 513	15 023	2	2
	1771 Concrete work -----	1 157	12 311	318 188	1 114 597	1 020 158	647 533	380 986	94 439	20 321	2	2
	1781 Water well drilling -----	100	884	23 310	72 808	70 389	42 993	28 942	2 419	2 667	4	4
	179 Miscellaneous special trade contractors:											
	1793 Structural steel erection -----	306	5 372	164 606	461 025	437 406	321 792	121 465	23 619	4 170	2	2
	1793 Glass and glazing work -----	366	3 166	83 515	290 471	278 442	153 382	131 211	12 029	2 739	4	3
	1794 Excavation work -----	959	8 080	201 570	758 256	697 365	541 872	175 016	60 891	45 319	4	3
	1795 Wrecking and demolition work -----	109	1 959	49 031	142 011	128 404	117 875	16 022	13 607	5 047	2	2
	1796 Installing building equipment, n.e.c. -----	293	8 606	279 001	811 836	771 703	561 438	230 304	40 134	4 412	1	1
	1799 Special trade contractors, n.e.c. -----	1 903	17 325	345 382	1 199 340	1 080 141	729 371	389 726	119 199	21 474	3	2
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
15,16, 17	BERGEN-PASSAIC, NJ PMSA											
	Construction industries and land subdividers and developers -----	4 302	41 036	1 125 783	4 163 246	3 250 779	2 291 368	1 168 467	912 467	51 354	1	1
	(See appropriate State for SIC detail.)											
	BRIDGEPORT-MILFORD, CT PMSA											
	Construction industries and land subdividers and developers -----	1 256	9 759	243 370	1 063 932	787 962	515 240	285 819	275 970	18 973	2	2
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	1521 Single-family houses -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1522 Other residential buildings -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1531 Operative builders -----	89	469	12 943	113 722	71 054	39 985	35 623	42 668	1 017	20	19
	General contractors, nonresidential buildings:											
	1541 Industrial buildings and warehouses -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1542 Nonresidential buildings, n.e.c. -----	68	1 428	41 799	267 160	114 696	73 981	41 742	152 465	3 403	6	3
	Heavy construction other than building construction—contractors:											
	1611 Highway and street construction -----	29	702	20 090	70 887	62 821	45 457	17 775	8 036	1 789	6	10
	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1623 Water, sewer, and utility lines -----	20	341	11 262	44 100	37 914	27 478	(D)	6 186	2 574	3	1
	1629 Heavy construction, n.e.c. -----	38	210	4 999	21 747	19 536	12 388	(D)	2 211	1 148	18	22

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	BRIDGEPORT-MILFORD, CT PMSA—Con.											
15,16, 17	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	137	1 116	29 915	98 581	87 632	52 933	36 033	10 949	1 978	6	5
1721	Painting and paper hanging	87	388	8 103	22 266	21 597	16 142	(D)	669	159	11	10
1731	Electrical work	124	1 055	28 103	74 925	73 570	49 823	23 954	1 355	750	10	8
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	44	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work	16	320	8 238	26 207	24 828	20 490	(D)	1 379	184	7	5
1743	Terrazzo, tile, marble, and mosaic work	30	83	2 574	7 851	7 753	4 939	2 814	98	*114	14	17
175	Carpentry and floor work:											
1751	Carpentry	129	491	8 834	29 878	27 074	16 314	11 089	2 805	*287	18	20
1752	Floor laying and other floorwork	*5	(S)	(S)	*1 683	*1 335	(S)	(D)	(S)	(D)	(S)	68
1761	Roofing, siding, and sheet metal work	59	372	8 285	31 142	27 844	18 316	9 604	3 298	*388	12	16
1771	Concrete work	34	236	5 759	22 929	21 478	14 040	7 438	1 451	*1 007	12	13
1781	Water well drilling	5	35	844	(D)	(D)	1 365	893	(D)	(D)	(W)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*7	54	1 311	(D)	(D)	3 147	(D)	371	(D)	10	(D)
1793	Glass and glazing work	6	53	2 224	5 210	(D)	3 263	2 021	(D)	(D)	(W)	(D)
1794	Excavation work	24	148	3 039	10 593	(D)	7 173	(D)	(D)	(D)	29	(D)
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. ..	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1799	Special trade contractors, n.e.c.	20	244	5 425	17 429	16 880	11 465	6 447	549	*507	17	17
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	DANBURY, CT PMSA											
	Construction industries and land subdividers and developers	760	5 084	131 223	552 023	431 769	268 612	176 932	120 254	14 192	3	4
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	147	933	20 003	84 879	65 657	35 488	(D)	19 222	1 473	10	9
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders	72	368	12 178	85 363	62 832	38 046	30 360	22 531	1 571	19	21
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.	13	391	13 505	83 961	(D)	26 606	(D)	(D)	702	7	(D)
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	7	162	5 524	20 737	(D)	10 119	10 304	(D)	(D)	20	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1623	Water, sewer, and utility lines	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1629	Heavy construction, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17 17	DANBURY, CT PMSA—Con.											
	Construction Industries and land subdividers and developers—Con.											
	Construction Industries—Con.											
	Special trade contractors:											
	1711 Plumbing, heating, and air- conditioning	110	626	17 398	71 825	58 021	35 278	23 287	13 804	1 244	7	10
	1721 Painting and paper hanging	48	179	3 256	(D)	(D)	7 100	(D)	*352	*444	23	(D)
	1731 Electrical work	83	723	19 164	50 639	48 461	29 575	18 943	2 178	*464	7	5
	174 Masonry, stonework, tile setting, and plastering:											
	1741 Masonry, stone setting, and other stonework	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1742 Plastering, drywall, and insulation work	10	185	7 066	19 672	(D)	9 373	(D)	(D)	200	(W)	(D)
	1743 Terrazzo, tile, marble, and mosaic work	9	27	474	3 098	(D)	1 769	(D)	(D)	(D)	(W)	(D)
	175 Carpentry and floor work:											
	1751 Carpentry	76	360	5 979	19 460	16 211	10 665	5 642	3 249	*354	7	7
	1752 Floor laying and other floorwork	12	55	1 195	5 790	(D)	2 157	3 175	(D)	(D)	(W)	(D)
	1761 Roofing, siding, and sheet metal work	*17	130	3 177	16 375	14 833	7 425	(D)	1 542	(S)	33	40
	1771 Concrete work	26	158	4 050	12 000	(D)	8 557	3 419	(D)	(D)	14	(D)
	1781 Water well drilling	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	179 Miscellaneous special trade contractors:											
	1791 Structural steel erection	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1793 Glass and glazing work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1794 Excavation work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1795 Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1796 Installing building equipment, n.e.c.	*1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	1799 Special trade contractors, n.e.c.	*14	*72	*941	*3 164	(D)	*1 813	*1 522	(D)	(D)	46	(D)
6552	Land subdividers and developers, n.e.c.	*11	*43	*725	(D)	1 698	1 247	(D)	(D)	(D)	48	28
	JERSEY CITY, NJ PMSA											
	Construction Industries and land subdividers and developers	821	8 665	240 569	828 967	689 819	465 603	241 146	139 149	8 084	2	2
	(See appropriate State for SIC detail.)											
	MIDDLESEX-SOMERSET- HUNTERDON, NJ PMSA											
	Construction Industries and land subdividers and developers	3 081	27 192	718 832	3 052 498	2 348 234	1 594 009	894 559	704 264	49 794	1	2
	(See appropriate State for SIC detail.)											
	MONMOUTH-OCEAN, NJ PMSA											
	Construction Industries and land subdividers and developers	3 305	21 653	503 649	2 568 111	1 916 873	1 241 390	755 399	651 239	51 587	2	2
	(See appropriate State for SIC detail.)											
	NASSAU-SUFFOLK, NY PMSA											
	Construction Industries and land subdividers and developers	8 478	61 366	1 473 591	6 192 526	4 843 115	3 069 702	1 869 299	1 349 411	98 258	1	1
	(See appropriate State for SIC detail.)											
	NEW YORK, NY PMSA											
	Construction Industries and land subdividers and developers	12 684	152 416	4 316 477	16 673 943	12 731 212	8 794 287	4 262 547	3 942 731	157 631	1	1
	(See appropriate State for SIC detail.)											
	NEWARK, NJ PMSA											
	Construction Industries and land subdividers and developers	5 246	42 725	1 108 251	4 893 478	3 758 633	2 385 100	1 440 868	1 134 845	66 535	1	2
	(See appropriate State for SIC detail.)											

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	NORWALK, CT PMSA											
	Construction industries and land subdividers and developers	495	3 776	98 923	463 618	307 753	184 685	128 055	155 865	7 478	4	6
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1531	Operative builders	33	131	3 070	60 659	*41 303	14 127	*28 504	*19 356	(S)	26	45
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	15	373	16 299	123 068	(D)	19 234	11 986	(D)	*176	10	(D)
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c.	14	133	3 084	11 674	10 465	8 327	(D)	1 209	1 166	21	19
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	65	507	11 883	43 710	42 023	24 279	18 321	1 687	781	11	8
1721	Painting and paper hanging	*18	219	3 385	9 874	9 311	7 651	(D)	*563	(S)	20	28
1731	Electrical work	48	351	10 305	29 841	29 445	18 871	(D)	397	*393	4	9
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work	6	156	6 625	14 896	(D)	10 075	4 250	(D)	56	(W)	(D)
1743	Terrazzo, tile, marble, and mosaic work	*3	*5	*111	*510	*506	*302	*204	*4	—	63	69
175	Carpentry and floor work:											
1751	Carpentry	45	247	4 964	14 305	11 710	7 890	(D)	*2 595	(S)	31	31
1752	Floor laying and other floorwork	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	*19	76	1 664	5 438	4 743	3 600	1 143	*695	*66	36	14
1771	Concrete work	9	71	2 407	6 701	(D)	3 975	2 388	(D)	(D)	(W)	(D)
1781	Water well drilling	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c.	*12	33	*798	*3 160	*2 502	*2 326	(D)	658	(S)	31	54
	ORANGE COUNTY, NY PMSA											
	Construction industries and land subdividers and developers	961	5 748	116 407	478 787	403 458	263 789	150 886	75 330	11 311	3	4

(See appropriate State for SIC detail.)

Table 12. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expendi- tures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	STAMFORD, CT PMSA											
	Construction industries and land subdividers and developers	677	7 347	208 589	1 034 236	733 443	490 899	265 910	300 793	16 905	2	2
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	126	815	18 915	102 428	61 193	35 173	29 157	41 235	655	10	9
1522	Other residential buildings	7	147	4 978	39 840	*24 517	*21 051	(D)	15 323	(S)	21	45
1531	Operative builders	31	325	10 346	75 527	35 081	11 952	24 216	40 446	478	7	21
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	30	2 100	68 428	460 708	284 666	201 326	92 919	176 041	6 802	1	1
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1629	Heavy construction, n.e.c.	8	117	3 842	12 470	11 024	8 412	3 067	1 447	*791	12	15
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	110	753	19 753	59 927	56 510	33 740	22 847	3 417	489	10	10
1721	Painting and paper hanging	42	197	3 823	13 631	10 160	7 615	2 626	3 471	*134	11	12
1731	Electrical work	68	547	15 301	41 382	40 979	26 659	(D)	403	506	7	4
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	35	173	3 937	10 557	10 535	7 971	(D)	*22	(D)	12	30
1742	Plastering, drywall, and insulation work	8	213	6 328	16 919	16 675	11 465	(D)	244	174	(W)	(W)
1743	Terrazzo, tile, marble, and mosaic work	5	32	874	(D)	(D)	1 272	550	(D)	(D)	(W)	(D)
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	*15	190	4 401	15 498	14 201	8 774	5 428	1 297	*279	25	17
1771	Concrete work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1781	Water well drilling	4	17	364	(D)	(D)	557	476	(D)	(D)	(W)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1793	Glass and glazing work	6	40	1 329	3 613	3 594	2 225	(D)	19	(D)	(W)	(W)
1794	Excavation work	*24	*237	8 781	23 489	22 386	17 627	(D)	1 102	(S)	47	33
1795	Wrecking and demolition work	5	122	3 513	10 108	10 108	11 111	(D)	-	(D)	(W)	(W)
1796	Installing building equipment, n.e.c.	*4	46	864	3 106	(D)	2 268	1 110	(D)	(S)	38	(D)
1799	Special trade contractors, n.e.c.	*16	139	4 355	14 946	(D)	7 446	5 026	(D)	(D)	17	(D)
6552	Land subdividers and developers, n.e.c.	18	93	1 925	*6 655	2 533	(D)	*2 829	*4 122	(D)	23	24

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Maine

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--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Maine. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 16,008 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$3.4 billion in total value of business done.

Most of the 16,008 construction establishments were small. Of the total, 11,583 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,666 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 70 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.8 billion on total dollar value of business done. Of this amount, \$2.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$537 million, leaving net value of construction work of \$2.2 billion. In addition, these establishments paid out \$965 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.4 million. (See Introduction and appendices for explanation of terms.)

There were 4,425 establishments with total employment averaging 32,706 during the year. Total payroll for 1987 was \$637 million. Total hours worked by construction workers during the year were 49.1 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 11,583 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$555 million. Most of these establishments, about 78 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

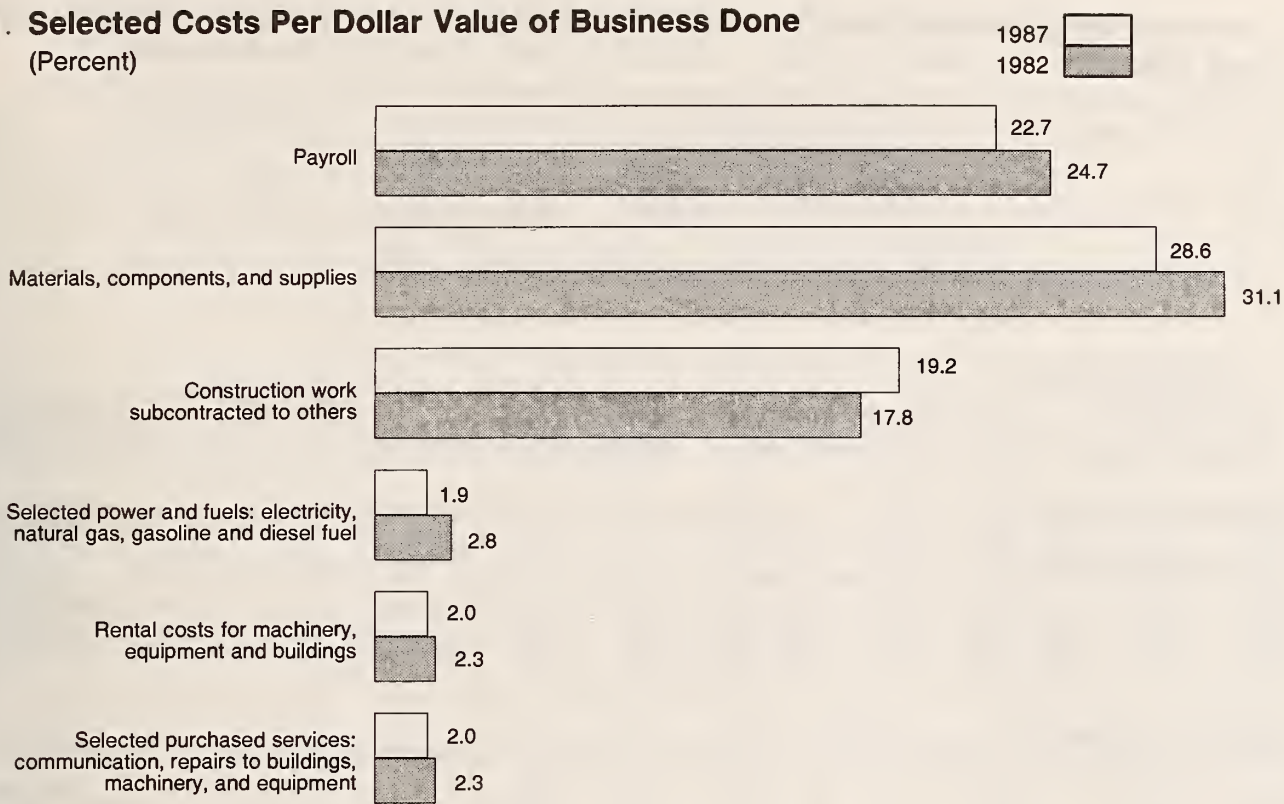


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

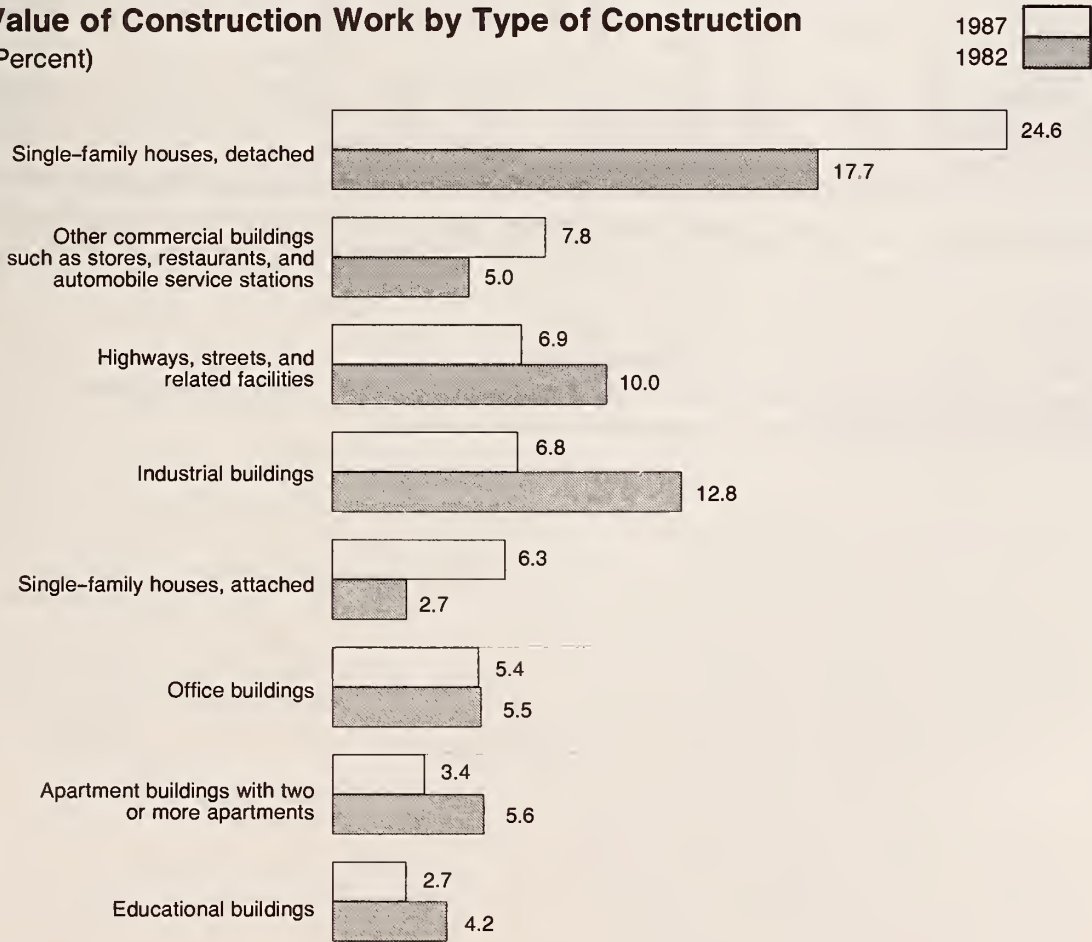


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
15, 16, 17	1987													
	Construction industries and land subdividers and developers -----	16 008	12 957	32 706	3 356 436	11 583	11 498	554 644	4 425	1 459	32 706	2 801 792	2	2
	Construction Industries -----	15 603	(D)	(D)	(D)	11 219	11 174	448 565	4 384	(D)	(D)	(D)	(D)	(D)
	Building construction—General contractors and operative bullders ----	3 372	2 231	9 948	1 236 365	1 910	1 822	141 369	1 462	409	9 948	1 094 996	3	3
	Heavy construction other than building construction— contractors -----	548	(D)	(D)	(D)	244	244	15 584	304	(D)	(D)	(D)	(D)	(D)
	Special trade contractors -----	11 683	10 077	15 062	1 276 194	9 065	9 108	291 613	2 618	969	15 062	984 581	3	3
	Plumbing, heating, and air-conditioning --	1 114	800	2 875	250 606	693	692	35 817	421	108	2 875	214 789	5	5
	Electrical work -----	999	758	2 065	153 286	644	643	21 701	355	115	2 065	131 585	5	5
	Land subdividers and developers, n.e.c.² -----	396	324	185	131 911	364	324	106 078	32	-	185	25 833	8	16
	1982													
15, 16, 17	Construction industries and land subdividers and developers -----	9 417	7 851	17 490	1 180 521	6 721	6 716	165 219	2 696	1 135	17 490	1 015 302	3	2
	Construction Industries -----	9 339	7 817	(D)	1 173 174	6 661	6 686	159 490	2 678	1 131	(D)	1 013 684	(D)	2
	Building construction—General contractors and operative bullders ----	1 723	1 275	4 471	345 486	1 011	1 003	39 127	712	272	4 471	306 359	5	5
	Heavy construction other than building construction— contractors -----	353	273	(D)	265 575	243	248	14 174	110	25	(D)	251 401	(D)	2
	Special trade contractors -----	7 263	6 269	9 619	562 113	5 407	5 435	106 189	1 856	834	9 619	455 924	4	3
	Plumbing, heating, and air-conditioning --	789	612	1 719	115 938	475	475	14 781	314	137	1 719	101 157	8	7
	Electrical work -----	802	671	1 181	74 760	568	564	12 908	234	107	1 181	61 852	10	10
	Land subdividers and developers, n.e.c.² -----	72	33	(D)	7 343	60	30	5 729	12	*3	(D)	1 614	(D)	34

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	16 008	12 957	32 706	3 356 436	11 583	11 498	554 644	4 425	1 459	32 706	2 801 792	2	2
\$10,000,000 or more -----	29	-	6 299	713 083	-	-	-	29	-	6 299	713 083	(W)	(W)
\$5,000,000 to \$9,999,999 -----	48	2	2 427	(D)	2	(D)	(D)	46	(D)	2 427	315 332	4	6
\$2,500,000 to \$4,999,999 -----	117	10	3 576	728 147	4	3	29 277	113	9	3 576	383 538	3	10
\$1,000,000 to \$2,499,999 -----	346	70	5 658	541 903	37	36	56 573	309	34	5 658	485 330	6	6
\$500,000 to \$999,999 -----	536	183	4 090	356 545	67	62	44 625	469	121	4 090	311 920	7	7
 \$250,000 to \$499,999 -----	 1 049	 484	 4 165	 367 438	 230	 233	 79 350	 819	 251	 4 165	 288 088	 8	 7
\$100,000 to \$249,999 -----	(S)	(S)	(S)	(S)	862	839	131 276	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	1 242	1 223	87 221	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	1 715	1 712	60 832	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000 -----	 (S)	 (S)	 (S)	 (S)	 7 424	 7 390	 65 489	 (S)	 (S)	 (S)	 (S)	 (S)	 (S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	2 793	2 774	45 706	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	1 805	1 798	13 110	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	1 252	1 250	4 604	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	1 574	1 568	2 069	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	9 417	7 851	17 490	1 180 521	6 721	6 716	165 219	2 696	1 135	17 490	1 015 302	3	2
\$10,000,000 or more -----	8	-	2 782	(D)	-	-	-	8	-	2 782	(D)	(W)	(D)
\$5,000,000 to \$9,999,999 -----	17	2	1 021	(D)	1	2	(D)	16	-	1 021	(D)	(W)	(D)
\$2,500,000 to \$4,999,999 -----	36	3	1 730	(D)	1	1	(D)	35	2	1 730	(D)	(W)	(D)
\$1,000,000 to \$2,499,999 -----	114	6	2 436	627 722	3	3	15 539	111	*3	2 436	612 233	4	2
\$500,000 to \$999,999 -----	163	14	2 061	119 290	6	5	4 850	157	*9	2 061	114 440	13	12
 \$250,000 to \$499,999 -----	 375	 140	 2 497	 (D)	 28	 27	 9 276	 347	 113	 2 497	 (D)	 10	 (D)
\$100,000 to \$249,999 -----	867	427	2 518	263 761	186	188	26 918	681	239	2 518	227 567	8	6
\$50,000 to \$99,999 -----	1 164	947	1 423	80 598	537	556	36 547	627	391	1 423	44 051	10	7
\$25,000 to \$49,999 -----	1 291	1 151	601	89 099	949	966	33 188	342	185	601	17 010	11	8
 Less than \$25,000 -----	 5 381	 5 160	 419	 (D)	 5 010	 4 968	 38 901	 371	 192	 419	 (D)	 11	 (D)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	1 646	1 639	25 407	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	1 334	1 323	9 141	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	1 216	1 205	3 539	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	814	801	814	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	4 425	32 706	26 779	636 884	488 532	49 147	2 701 081	2 164 313
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 062	5 468	4 474	78 864	60 524	7 578	421 697	312 580
1522	Other residential buildings -----	85	787	648	16 084	10 210	850	103 294	60 960
1531	Operative builders -----	138	765	419	(D)	(D)	693	145 632	87 450
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	*20	365	249	7 794	4 384	*508	66 774	31 340
1542	Nonresidential buildings, n.e.c. -----	157	2 563	2 038	50 514	33 016	3 271	317 027	170 142
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	100	2 152	1 804	47 368	35 799	3 744	192 991	173 440
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	3	(D)	(D)	(D)	(D)	(D)	20 529	(D)
1623	Water, sewer, and utility lines -----	68	932	782	25 284	20 236	1 712	103 797	85 675
1629	Heavy construction, n.e.c. -----	133	4 236	3 699	126 130	109 034	8 119	354 726	312 091
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	421	2 875	2 192	57 982	42 406	4 008	206 533	187 000
1721	Painting and paper hanging -----	243	1 218	1 065	16 662	15 059	1 725	39 157	38 015
1731	Electrical work -----	355	2 065	1 627	41 085	32 152	3 131	131 004	129 593
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	198	1 103	961	15 787	12 923	1 686	48 684	47 788
1742	Plastering, drywall, and insulation work -----	128	1 522	1 329	27 255	21 484	2 278	106 069	102 890
1743	Terrazzo, tile, marble, and mosaic work -----	*15	109	89	1 858	1 424	(D)	8 854	(D)
175	Carpentry and floor work:								
1751	Carpentry -----	481	1 628	1 452	22 229	19 557	2 483	101 329	87 696
1752	Floor laying and other floor work -----	65	158	128	2 602	1 954	202	12 458	12 278
1761	Roofing, siding, and sheet metal work -----	120	943	777	18 093	13 596	1 544	65 868	63 051
1771	Concrete work -----	179	1 086	931	15 978	12 488	1 619	65 415	64 128
1781	Water well drilling -----	42	181	138	3 911	2 729	*278	15 591	15 554
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	*11	37	30	793	640	*60	2 308	1 730
1793	Glass and glazing work -----	5	37	27	817	561	47	3 692	(D)
1794	Excavation work -----	200	1 273	1 063	22 133	17 587	2 177	95 173	88 361
1795	Wrecking and demolition work -----	(S)	(S)	(S)	*327	*303	(S)	1 481	(D)
1796	Installing building equipment, n.e.c. -----	17	150	120	3 413	2 802	193	14 951	14 558
1799	Special trade contractors, n.e.c. -----	129	637	516	10 478	8 016	679	40 391	38 973
6552	Land subdividers and developers, n.e.c. -----	32	185	22	3 931	*598	*51	15 646	10 666

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 374 526	853 975	536 767	55 706	89 436	545 329	17 490	985 663	486 011	2	2	6	15, 16, 17
												15
171 027	146 065	109 117	4 152	8 991	31 981	1 962	91 770	39 983	5	5	13	152
33 702	(D)	42 334	863	725	4 614	573	45 153	14 616	12	15	33	1521
(D)	41 120	58 182	641	3 115	27 830	287	22 192	5 946	16	19	39	1531
13 692	18 041	35 434	667	618	*11 614	469	29 422	7 493	29	23	23	154
91 723	81 054	146 884	3 310	4 266	28 251	1 180	109 276	30 998	5	4	17	1541
												16
106 208	87 310	19 551	8 816	8 443	90 986	990	57 041	30 886	13	8	6	1611
(D)	(D)	(D)	(D)	(D)	(D)	297	24 233	10 043	(D)	(D)	(D)	162
61 580	25 595	18 121	4 510	8 773	47 548	873	75 847	39 940	9	6	11	1622
242 682	72 159	42 634	18 294	16 537	95 562	1 218	85 462	42 132	3	3	20	1623
												17
109 869	85 386	19 533	2 630	3 987	19 704	1 719	98 176	49 556	5	4	15	1711
31 023	8 637	1 142	*628	*2 092	7 236	781	17 812	14 007	14	14	48	1721
76 734	53 439	1 411	1 114	3 581	15 300	1 181	61 356	32 279	5	5	12	1731
34 530	15 161	896	1 055	1 409	13 218	568	21 304	13 375	10	9	23	174
76 901	(D)	3 179	738	2 735	15 243	468	25 921	16 394	13	27	30	1741
3 627	4 480	(D)	(D)	(S)	(S)	*38	*2 234	*1 228	14	(D)	(S)	1742
												175
53 604	(D)	13 633	332	2 643	11 784	912	34 684	16 573	6	8	23	1751
7 682	5 694	180	97	(D)	553	78	*3 476	*1 846	13	15	(D)	1752
39 295	27 197	2 817	978	2 211	15 218	678	31 177	17 079	6	6	19	1761
35 026	29 132	1 286	655	2 029	16 679	392	15 174	10 158	12	9	29	1771
11 403	4 179	36	*47	*909	11 607	79	3 651	*1 347	24	22	72	1781
1 455	323	(S)	(S)	(S)	(S)	*65	1 677	1 208	31	33	(S)	179
1 496	2 527	(D)	44	(D)	82	48	2 781	1 424	(W)	(D)	(D)	1791
65 318	25 762	6 811	4 380	12 624	59 819	1 562	67 983	46 140	11	10	28	1793
*1 096	(S)	(D)	(S)	(S)	(S)	(D)	(D)	(D)	(S)	(D)	(S)	1794
9 563	4 995	*393	*139	146	1 011	160	9 941	6 258	24	24	33	1795
26 592	14 173	1 417	964	*2 113	*8 134	889	46 897	(D)	14	13	43	1796
												1799
11 564	2 034	4 980	76	*190	*4 127	(D)	1 016	505	8	23	51	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	4 425	2 696	3 312	3 054	1	3	4	5
Proprietors and working partners	1 459	1 135	1 974	2 057	6	6	7	7
All employees**	32 706	17 490	19 606	19 801	2	3	2	4
Construction workers:								
March	22 417	11 024	13 472	12 663	2	3	3	4
May	27 470	14 690	18 310	17 116	2	2	3	4
August	30 640	16 970	19 407	20 922	2	3	2	4
November	28 590	15 354	16 476	18 014	2	4	2	4
Average	26 779	14 789	16 930	17 584	2	2	2	4
Other employees:								
March	6 078	2 641	3 155	2 079	7	4	3	8
May	5 771	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	5 988	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	5 867	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Average	5 926	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	9 967	5 282	(NA)	(NA)	2	3	(NA)	(NA)
April to June	12 728	6 880	(NA)	(NA)	2	3	(NA)	(NA)
July to September	14 212	8 087	(NA)	(NA)	2	3	(NA)	(NA)
October to December	12 238	6 903	(NA)	(NA)	2	4	(NA)	(NA)
Total hours worked	49 147	27 154	(NA)	(NA)	2	3	(NA)	(NA)
Payroll, all employees	636 884	251 290	191 037	146 440	1	2	2	3
Payroll, construction workers	488 532	201 362	158 830	124 859	1	2	2	3
Payroll, other employees	148 352	49 928	32 207	21 581	2	3	3	4
First quarter payroll, all employees	130 758	48 830	37 372	(NA)	2	2	2	(NA)
Employer costs for fringe benefits, all employees	145 534	47 285	31 520	(NA)	1	2	2	(NA)
Legally required expenditures	106 063	36 695	23 163	(NA)	2	3	2	(NA)
Voluntary expenditures	39 470	10 590	8 356	(NA)	2	3	2	(NA)
Dollar value of business done	2 801 792	1 015 302	736 249	554 238	2	2	2	3
Value of construction work ¹	2 701 081	985 663	705 930	535 873	2	2	2	3
Value of construction work subcontracted in from others	605 725	180 370	140 972	88 068	7	5	3	8
Land receipts ²	38 522	4 163	(NA)	(NA)	24	24	(NA)	(NA)
Other business receipts	84 188	25 476	30 320	18 365	5	6	5	10
Net value of construction†	2 164 313	805 037	587 401	451 297	2	2	2	3
Value added††	1 374 526	486 011	344 809	270 569	3	2	2	3
Selected costs	1 390 743	525 127	387 474	281 011	2	3	3	4
Materials, components, and supplies ³	801 561	315 710	250 647	196 435	2	2	3	4
Construction work subcontracted to others	536 787	180 625	118 528	84 576	3	4	5	4
Selected power, fuels, and lubricants	52 414	28 791	18 299	(NA)	2	3	3	(NA)
Electricity	6 397	3 290	1 814	(NA)	3	3	6	(NA)
Natural gas	940	546	295	(NA)	9	18	23	(NA)
Gasoline and diesel fuel	40 882	23 058	14 202	(NA)	3	4	3	(NA)
On highway use	28 474	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Off highway use	12 408	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	4 193	1 896	1 988	(NA)	5	5	8	(NA)
Rental cost for machinery, equipment, and buildings	55 706	23 769	10 391	(NA)	3	2	2	(NA)
For machinery and equipment	45 034	21 113	8 971	8 898	4	2	3	2
For buildings	10 671	2 656	1 421	(NA)	6	8	6	(NA)
Selected purchased services	55 607	23 718	19 728	(NA)	3	4	3	(NA)
Communication services	11 127	4 763	3 906	(NA)	4	4	6	(NA)
Repairs to buildings and other structures	4 840	1 141	667	(NA)	10	9	14	(NA)
Repairs to machinery and equipment	39 639	17 814	15 155	(NA)	4	4	3	(NA)
Ownership of construction projects:								
Value of construction work	2 701 081	985 663	705 930	535 873	2	2	2	3
Government owned	468 953	282 934	148 764	161 834	4	6	1	2
Federal	168 760	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
State and local	300 192	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Privately owned	2 232 127	702 728	557 166	374 039	3	3	2	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	481 358	216 641	5	4
Capital expenditures, other than land -----	89 436	23 417	6	4
New -----	74 387	16 241	6	5
Used -----	15 049	7 176	15	8
Retirements and disposition of depreciable assets -----	25 466	9 120	18	6
End-of-year gross book value of depreciable assets -----	545 329	230 938	4	4
Depreciation charges during year -----	65 430	26 427	5	4
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	80 095	36 034	9	7
Capital expenditures, other than land -----	11 445	2 134	12	12
New buildings and other structures -----	8 024	1 476	12	17
Used buildings and other structures -----	3 420	658	29	21
Retirements and disposition of depreciable assets -----	1 441	609	27	16
End-of-year gross book value of depreciable assets -----	90 099	37 559	9	7
Depreciation charges during year -----	8 458	3 710	14	12
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	401 263	180 607	5	4
Capital expenditures, other than land -----	77 991	21 283	7	5
New machinery and equipment, including automobiles and trucks -----	66 362	14 765	7	5
New automobiles and trucks, intended primarily for highway use -----	31 745	5 318	10	10
Used machinery and equipment, including automobiles and trucks -----	11 629	6 517	18	8
Retirements and disposition of depreciable assets -----	24 025	8 511	19	6
End-of-year gross book value of depreciable assets -----	455 229	193 378	5	4
Depreciation charges during year -----	56 971	22 717	5	4

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	4 425	1
Value of construction work	2 701 081	2
Establishments with inventories:		
Number	(S)	(S)
Value of construction work	(S)	(S)
Inventories ¹ :		
End of 1987, materials and supplies	(S)	(S)
End of 1986, materials and supplies	(S)	(S)
Establishments with no inventories:		
Number	(S)	(S)
Value of construction work	(S)	(S)
Establishments not reporting:		
Number	(S)	(S)
Value of construction work	(S)	(S)

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	4 425	(S)	1 035	333	226	48	20	2	-	2
All employees**	32 706	(S)	6 572	4 424	6 603	3 204	2 771	3 465	-	(D)
Payroll, all employees	636 884	(S)	100 731	79 044	128 477	74 455	68 023	107 598	-	(D)
Construction worker hours (thousands)	49 147	(S)	8 618	7 020	10 306	5 003	3 960	6 369	-	(D)
Dollar value business done	2 801 792	(S)	476 183	352 022	592 434	339 372	275 837	299 952	-	(D)
Value of construction work ¹	2 701 081	(S)	454 126	338 827	571 188	329 913	556 586	(D)	-	(D)
Net value of construction work†	2 164 313	(S)	393 001	284 948	438 745	227 013	198 316	250 000	-	(D)
Value added††	1 374 526	(S)	251 744	178 188	263 499	147 546	126 537	194 532	-	(D)
Cost of materials, components, supplies, and fuels	853 975	(S)	147 339	117 030	277 367	(D)	146 450	(D)	-	(D)
Cost of construction work subcontracted to others	536 767	(S)	61 125	53 879	132 443	102 900	108 270	(D)	-	(D)
Rental cost for machinery, equipment, and buildings	55 706	(S)	5 661	5 975	9 526	4 808	8 430	16 378	-	(D)
Capital expenditures, other than land	89 436	(S)	15 882	19 158	17 385	11 169	4 408	6 276	-	(D)
End-of-year gross book value of depreciable assets	545 329	(S)	89 696	78 837	120 290	71 455	36 701	59 896	-	(D)
1982										
All employees**	17 490	3 759	2 901	2 855	3 398	1 545	523	2 507	(D)	(D)
Value of construction work ¹	985 663	161 636	137 384	150 440	226 738	96 332	37 820	175 312	(D)	(D)
Value added††	486 011	79 876	71 245	71 691	102 591	48 895	20 585	91 126	(D)	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	(S)	6	6	6	(W)	7	(W)	-	(D)
Net value of construction work†	2	(S)	10	6	5	(W)	1	(W)	-	(D)
Capital expenditures, other than land	6	(S)	16	22	12	4	(W)	(W)	-	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	4 425	(S)	(S)	(S)	(S)	819	469	309	113	46	29
All employees**	32 706	(S)	(S)	(S)	(S)	4 165	4 090	5 658	3 576	2 427	6 299
Payroll, all employees	636 884	(S)	(S)	(S)	(S)	63 436	70 938	108 901	78 299	56 652	184 620
Construction worker hours (thousands)	49 147	(S)	(S)	(S)	(S)	5 792	6 381	8 648	5 245	4 090	10 398
Dollar value of business done	2 801 792	(S)	(S)	(S)	(S)	288 088	311 920	485 330	383 538	315 332	713 083
Value of construction work ¹	2 701 081	(S)	(S)	(S)	(S)	281 872	302 896	464 032	360 255	300 147	691 462
Net value of construction work†	2 164 313	(S)	(S)	(S)	(S)	244 682	262 835	375 705	294 348	209 195	501 644
Value added††	1 374 526	(S)	(S)	(S)	(S)	142 123	169 048	229 517	196 028	125 721	346 895
Cost of materials, components, supplies, and fuels	853 975	(S)	(S)	(S)	(S)	106 770	99 650	159 046	108 356	<u>267 086</u>	(D)
Cost of construction work subcontracted to others	536 767	(S)	(S)	(S)	(S)	37 190	40 060	88 327	65 907	90 952	189 818
Rental cost for machinery, equipment, and buildings	55 706	(S)	(S)	(S)	(S)	2 527	6 124	7 516	5 266	4 992	25 686
Capital expenditures, other than land	89 436	(S)	(S)	(S)	(S)	12 399	12 446	19 726	10 536	7 858	13 706
End-of-year gross book value of depreciable assets	545 329	(S)	(S)	(S)	(S)	53 696	61 257	109 523	61 268	80 583	104 608
1982											
All employees**	17 490	419	601	1 423	2 518	2 497	2 061	2 436	1 730	1 021	2 782
Value of construction work ¹	985 663	4 397	12 498	43 010	106 339	114 825	110 068	163 726	130 442	100 255	200 101
Value added††	486 011	2 340	6 470	23 613	56 167	60 948	56 960	72 662	55 112	47 478	104 257
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	(S)	(S)	8	7	8	3	4	(W)
Net value of construction work†	2	(S)	(S)	(S)	(S)	7	7	6	11	5	(W)
Capital expenditures, other than land	6	(S)	(S)	(S)	(S)	23	25	17	16	3	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	2 701 081	1 619 158	638 636	297 264	2	3	2	3
Building construction	1 813 519	1 208 800	410 528	175 531	3	4	3	4
Single-family houses	833 750	613 394	144 946	75 409	4	5	6	7
Single-family houses, detached	664 039	459 488	134 461	70 089	4	6	7	7
Single-family houses, attached	169 710	153 905	10 484	5 320	10	10	14	21
Apartment buildings with two or more apartments	93 140	68 853	16 707	7 579	8	10	18	20
Other residential buildings, including hotels and motels	96 320	63 028	22 649	10 642	10	13	13	18
Hotels and motels	33 135	19 985	8 593	4 555	9	8	20	12
Other residential buildings, excluding hotels and motels	63 185	43 042	14 056	6 086	14	18	18	29
Office buildings	146 106	103 235	34 132	8 738	4	4	9	6
Other commercial buildings such as stores, restaurants, and automobile service stations	209 542	125 890	65 609	18 042	4	4	9	11
Industrial buildings and warehouses	236 367	152 031	46 439	37 896	11	16	4	9
Industrial buildings	183 697	115 566	32 562	35 567	13	20	6	9
Warehouses	52 670	36 465	13 876	2 329	8	11	3	11
Religious buildings	22 699	8 287	11 232	3 180	15	17	25	18
Educational buildings	72 262	33 310	34 042	4 909	9	8	15	9
Hospitals and institutional buildings	59 104	27 420	26 888	4 795	8	13	8	9
Other nonresidential buildings	25 570	13 352	7 884	4 341	6	12	4	7
Land development for buildings	18 659	(NA)	(NA)	(NA)	33	(NA)	(NA)	(NA)
Nonbuilding construction	760 200	410 358	228 108	121 734	2	3	2	3
Highways, streets, and related facilities	186 478	100 465	54 514	31 498	6	7	7	7
Parking areas including private driveways	16 877	12 543	*2 045	2 287	21	23	46	37
Bridges and elevated highways	81 879	37 756	(D)	(W)	(W)	(W)	(D)	(D)
Dam and reservoir construction	20 191	11 558	(D)	(D)	2	3	(D)	(D)
Power and communication transmission lines, towers, and related facilities	23 750	15 653	5 446	2 650	12	16	8	15
Sewers, water mains, and related facilities	100 986	75 339	16 269	9 377	6	6	9	14
Sewers, sewer lines, and related facilities	63 519	49 328	8 182	6 008	5	5	6	20
Water mains and related facilities	37 466	26 010	8 087	3 368	12	14	15	14
Power plants	99 770	75 256	2 557	21 956	(W)	(W)	1	(W)
Sewage treatment and water treatment plants	14 476	13 645	441	389	8	8	(W)	8
Earthmoving, nonbuilding	20 902	15 208	2 326	3 367	26	26	37	34
Other nonbuilding construction	194 891	52 935	94 671	47 295	14	17	27	23
Construction work, n.s.k.	127 362	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	985 663	732 032	(NA)	253 630	2	2	(NA)	3
Building construction	611 982	464 668	(NA)	147 314	2	3	(NA)	4
Single-family houses	201 284	146 780	(NA)	54 504	5	6	(NA)	8
Single-family houses, detached	174 548	125 024	(NA)	49 524	6	7	(NA)	6
Single-family houses, attached	26 735	21 755	(NA)	4 980	17	21	(NA)	28
Apartment buildings with two or more apartments	55 106	45 301	(NA)	9 805	5	4	(NA)	20
Other residential buildings, including hotels and motels	17 591	13 936	(NA)	3 655	17	20	(NA)	15
Office buildings	53 788	41 442	(NA)	12 346	10	11	(NA)	11
Other commercial buildings such as stores, restaurants, and automobile service stations	49 396	35 275	(NA)	14 121	6	9	(NA)	7
Industrial buildings and warehouses	143 938	107 685	(NA)	36 253	3	3	(NA)	5
Industrial buildings	125 894	91 497	(NA)	34 397	4	3	(NA)	5
Warehouses	18 044	16 187	(NA)	1 856	5	5	(NA)	14
Religious buildings	4 447	2 356	(NA)	2 091	16	27	(NA)	15
Educational buildings	41 576	33 392	(NA)	8 183	6	8	(NA)	8
Hospitals and institutional buildings	32 998	28 902	(NA)	4 096	6	6	(NA)	11
Other nonresidential buildings	11 858	9 599	(NA)	2 260	12	14	(NA)	7
Nonbuilding construction	280 521	199 581	(NA)	80 940	2	2	(NA)	2
Highways, streets, and related facilities	98 767	67 308	(NA)	31 459	5	7	(NA)	4
Bridges, tunnels, and elevated highways	29 911	18 275	(NA)	11 636	1	1	(NA)	(W)
Power and communication transmission lines, towers, and related facilities	32 693	(D)	(NA)	(D)	3	(D)	(NA)	(D)
Sewers, water mains, and related facilities	38 905	33 856	(NA)	5 048	6	6	(NA)	13
Sewers, sewer lines, and related facilities	35 364	31 139	(NA)	4 225	6	6	(NA)	13
Water mains and related facilities	3 540	2 717	(NA)	823	20	23	(NA)	24
Heavy industrial facilities	33 863	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Sewage treatment and water treatment plants	8 734	6 123	(NA)	2 610	11	16	(NA)	9
Other nonbuilding construction	37 648	25 604	(NA)	12 047	24	22	(NA)	28
Construction work, n.s.k.	93 158	67 783	(NA)	25 375	8	9	(NA)	7

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	4 425	26 779	49 147	22 417	9 967	27 470	12 728
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 062	4 474	7 578	3 824	1 532	4 388	1 892
1522	Other residential buildings -----	85	648	850	609	199	667	210
1531	Operative builders -----	138	419	693	404	182	421	177
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses-----	*20	249	*508	227	*131	272	*131
1542	Nonresidential buildings, n.e.c. -----	157	2 038	3 271	1 822	747	2 010	822
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction-----	100	1 804	3 744	898	464	2 173	1 053
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	3	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	68	782	1 712	557	319	818	450
1629	Heavy construction, n.e.c. -----	133	3 699	8 119	2 883	1 563	3 932	2 213
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	421	2 192	4 008	2 130	975	2 201	1 028
1721	Painting and paper hanging -----	243	1 065	1 725	736	294	1 106	476
1731	Electrical work -----	355	1 627	3 131	1 472	659	1 632	775
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	198	961	1 686	957	356	945	432
1742	Plastering, drywall, and insulation work --	128	1 329	2 278	1 405	560	1 314	552
1743	Terrazzo, tile, marble, and mosaic work -	*15	89	(D)	87	(D)	91	(D)
175	Carpentry and floor work:							
1751	Carpentry -----	481	1 452	2 483	1 304	553	1 351	595
1752	Floor laying and other floor work -----	65	128	202	113	39	129	52
1761	Roofing, siding, and sheet metal work-----	120	777	1 544	707	329	855	417
1771	Concrete work -----	179	931	1 619	480	227	986	408
1781	Water well drilling -----	42	138	*278	126	*63	143	*71
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	*11	30	*60	31	*15	(D)	*14
1793	Glass and glazing work -----	5	27	47	26	11	26	11
1794	Excavation work -----	200	1 063	2 177	796	381	1 150	600
1795	Wrecking and demolition work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	17	120	193	114	42	114	48
1799	Special trade contractors, n.e.c. -----	129	516	679	528	197	489	158
6552	Land subdividers and developers, n.e.c. --	32	22	*51	21	*11	19	*11

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code	
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)												
H	I	J	K	B	C	D	E	F	G	H	I	J	K		
30 640	14 212	26 590	12 238	2	2	2	2	2	2	2	2	2	2	15, 16, 17	
														15	
5 018 667	2 147 228	4 668 651	2 005 212	5 11	7 18	5 11	7 18	5 12	7 18	5 12	7 19	5 11	7 19	152 1521 1522	
439	186	413	146	17	23	17	25	18	25	17	24	24	25	1531	
														154	
274 2 259	*128 886	225 2 063	*116 816	31 5	48 9	32 6	52 9	32 5	50 9	31 4	44 8	29 4	47 9	1541 1542	
														16	
2 300	1 269	1 846	956	12	11	15	12	14	12	11	11	9	10	1611	
														162 1622	
(D) 933 4 675	(D) 490 2 509	(D) 821 3 305	(D) 451 1 834	(D) 8 3	(D) 10 4	(D) 7 3	(D) 9 4	(D) 9 3	(D) 10 4	(D) 10 2	(D) 11 4	(D) 8 3	(D) 11 5	1623 1629	
														17	
2 232	1 031	2 203	974	5	7	6	8	5	7	5	7	5	8	1711	
1 452	523	968	431	14	17	13	17	14	18	16	20	15	19	1721	
1 673	823	1 733	872	5	7	6	8	5	7	5	7	5	7	1731	
														174	
														1741	
1 128 1 376 92	502 631 (D)	815 1 220 87	395 533 (D)	10 14 17	10 12 (D)	12 18 17	13 13 (D)	10 14 17	10 12 (D)	12 13 17	12 12 (D)	10 14 17	13 11 (D)	1742 1743	
1 628 153	691 61	1 526 120	642 48	7 12	9 20	8 26	10 28	8 13	10 20	6 12	9 18	7 15	9 25	175 1751 1752	
777	409	769	387	7	9	8	10	7	10	8	10	6	8	1761	
1 208	554	1 048	428	13	16	16	21	13	16	12	18	14	16	1771	
143	*68	139	*74	26	60	29	66	22	52	22	54	31	70	1781	
														179	
36 29 1 178 (S) 125 598	(D) 12 656 (S) (S) 50 170	(D) 30 1 128 *34 128 448	(D) 12 539 (S) (S) 50 152	30 (W) 11 (S) (S) 25 14	41 5 14 (S) (S) 33 21	32 (W) 11 (S) (S) 26 24	41 5 15 (S) (S) 31 35	(D) (W) 12 (S) (S) 24 14	42 5 13 (S) (S) 34 21	33 (W) 12 (S) (S) 25 18	(D) 5 14 (S) (S) 34 22	(D) (W) 11 66 27 14	(D) (W) 14 (S) (S) 32 24	(D) 4 1793 (S) (S) 32 24	1791 1794 1795 1796 1799
28	*15	22	*12	24	51	24	50	26	53	24	51	23	50	6552	

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	7.4	19.5	1 835.3	100.9	.236	.316	.199	.021
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	5.1	14.4	1 693.8	94.3	.187	.346	.259	.010
1522	Other residential buildings	9.3	20.4	1 311.7	159.4	.156	(D)	.410	.008
1531	Operative builders	5.5	(D)	1 653.9	347.6	(D)	.282	.400	.004
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	*18.3	21.4	*2 040.2	268.2	.117	.270	.531	.010
1542	Nonresidential buildings, n.e.c.	16.3	19.7	1 605.0	155.6	.159	.256	.463	.010
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	21.5	22.0	2 075.4	107.0	.245	.452	.101	.046
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	13.7	27.1	2 189.3	132.7	.244	.247	.175	.043
1629	Heavy construction, n.e.c.	31.8	29.8	2 194.9	95.9	.356	.203	.120	.052
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	6.8	20.2	1 828.5	94.2	.281	.413	.095	.013
1721	Painting and paper hanging	5.0	13.7	1 619.7	36.8	.426	.221	.029	*.016
1731	Electrical work	5.8	19.9	1 924.4	80.5	.314	.408	.011	.009
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	5.6	14.3	1 754.4	50.7	.324	.311	.018	.022
1742	Plastering, drywall, and insulation work	11.9	17.9	1 714.1	79.8	.257	(D)	.030	.007
1743	Terrazzo, tile, marble, and mosaic work	*7.3	17.0	(D)	99.5	.210	.506	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry	3.4	13.7	1 710.1	69.8	.219	(D)	.135	.003
1752	Floor laying and other floor work	2.4	16.5	1 578.1	97.3	.209	.457	.014	.008
1761	Roofing, siding, and sheet metal work	7.9	19.2	1 987.1	84.8	.275	.413	.043	.015
1771	Concrete work	6.1	14.7	1 739.0	70.3	.244	.445	.020	.010
1781	Water well drilling	4.3	21.6	*2 014.5	113.0	.251	.268	.002	.003
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	*3.4	21.4	*2 000.0	76.9	.344	.140	(S)	(S)
1793	Glass and glazing work	7.4	22.1	1 740.7	136.7	.221	.684	(D)	.012
1794	Excavation work	6.4	17.4	2 048.0	89.5	.233	.271	.072	.046
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	.221	(S)	(D)	(S)
1796	Installing building equipment, n.e.c.	8.8	22.8	1 608.3	124.6	.228	.334	.026	*.009
1799	Special trade contractors, n.e.c.	4.9	16.4	1 315.9	78.3	.259	.351	.035	.024
6552	Land subdividers and developers, n.e.c.	5.8	21.2	*2 318.2	711.2	.251	.130	.318	.005

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

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Statistics for Establishments With and Without Payroll

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Massachusetts. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 61,171 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$19.2 billion in total value of business done.

Most of the 61,171 construction establishments were small. Of the total, 43,312 were nonemployers, and over half of the employer establishments had less than 5 employees. The 7,439 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 70 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$15.6 billion on total dollar value of business done. Of this amount, \$15.1 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$3.9 billion, leaving net value of construction work of \$11.2 billion. In addition, these establishments paid out \$4.8 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$7.1 billion. (See Introduction and appendixes for explanation of terms.)

There were 17,859 establishments with total employment averaging 143,625 during the year. Total payroll for 1987 was \$3.5 billion. Total hours worked by construction workers during the year were 193 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.



Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 43,312 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$3.6 billion. Most of these establishments, about 78 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987 
1982 

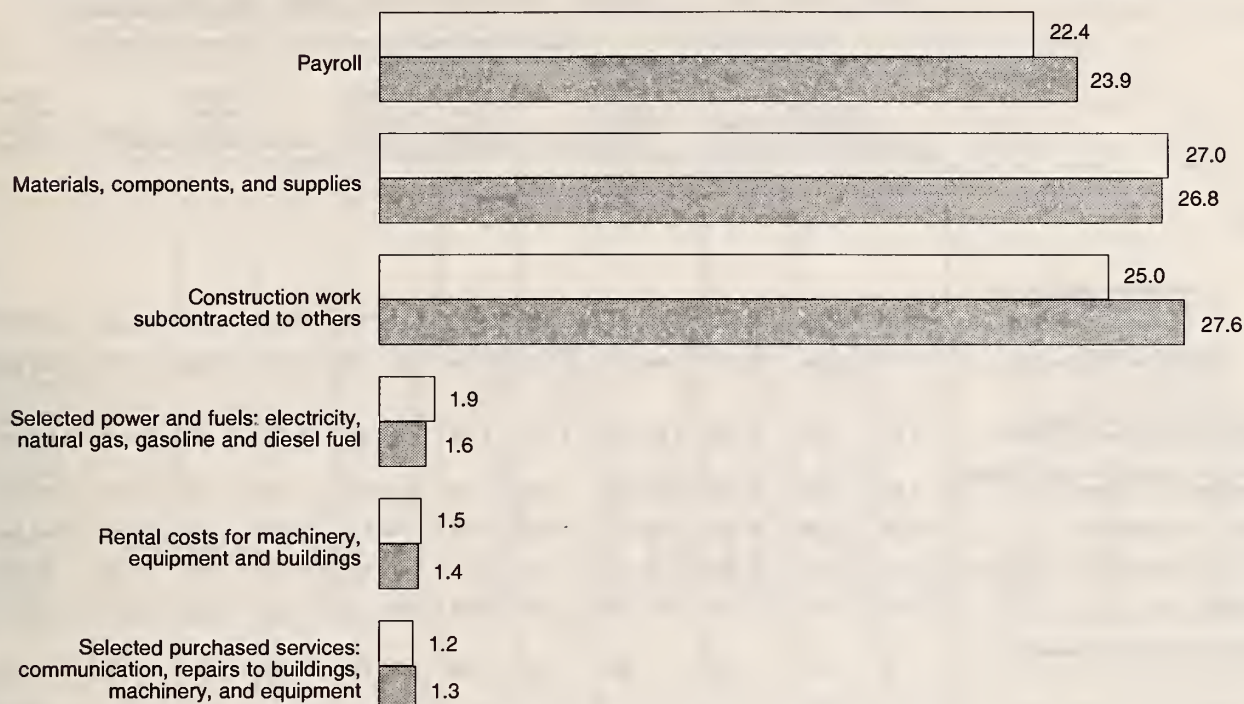



Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987 
1982 

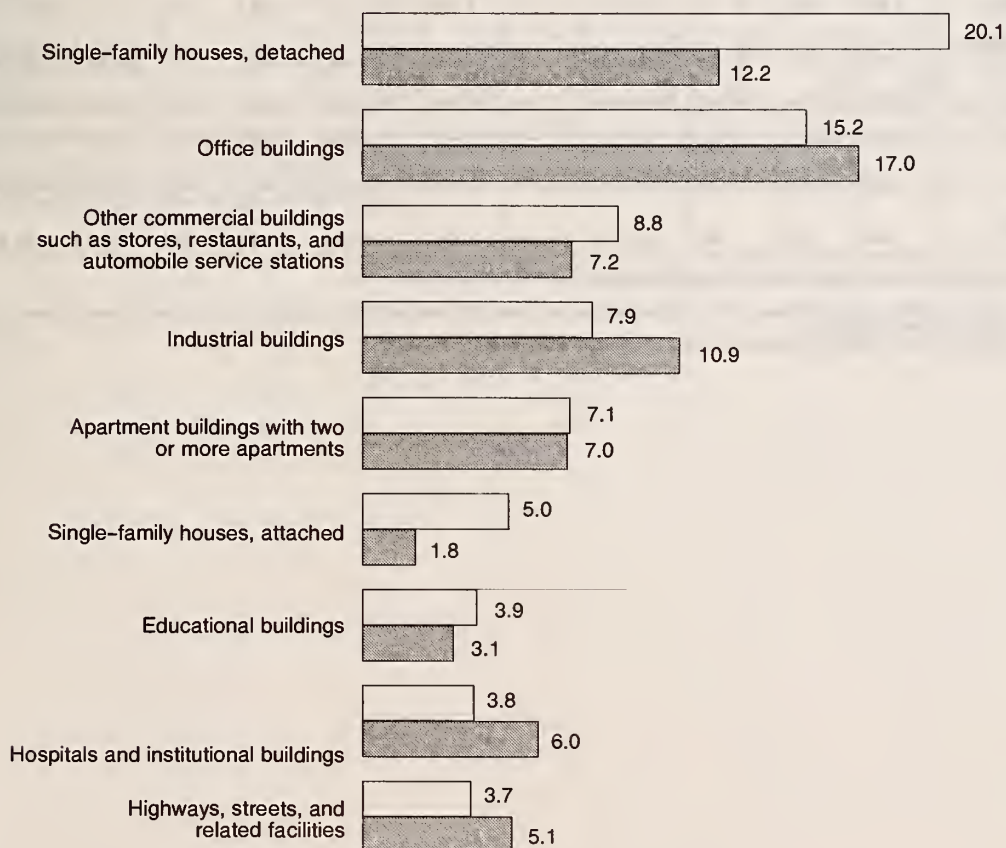


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction industries and land subdividers and developers -----	61 171	45 908	143 625	19 210 213	43 312	42 436	3 563 092	17 859	3 472	143 625	15 647 121	1	1
15, 16, 17	Construction Industries -----	59 572	44 590	142 577	17 964 496	41 970	41 148	2 501 570	17 602	3 442	142 577	15 462 926	1	1
15	Building construction—General contractors and operative builders ----	13 243	7 787	41 552	8 247 502	7 732	6 922	1 102 297	5 511	865	41 552	7 145 205	1	1
16	Heavy construction other than building construction— contractors -----	1 221	397	14 475	1 753 732	370	334	42 461	851	63	14 475	1 711 271	1	1
17	Special trade contractors -----	45 108	36 406	86 550	7 963 263	33 868	33 892	1 356 813	11 240	2 514	86 550	6 606 450	1	1
1711	Plumbing, heating, and air-conditioning --	4 864	3 081	17 765	1 749 496	2 691	2 670	164 891	2 173	411	17 765	1 584 605	2	2
1731	Electrical work -----	4 610	3 156	17 067	1 320 774	2 803	2 782	111 785	1 807	374	17 067	1 208 989	1	1
6552	Land subdividers and developers, n.e.c.² -----	(S)	(S)	(S)	(S)	1 342	1 288	1 061 522	(S)	(S)	(S)	(S)	(S)	(S)
	1982													
	Construction industries and land subdividers and developers -----	33 177	24 763	96 314	8 417 094	21 798	21 505	1 339 506	11 379	3 258	96 314	7 077 588	1	1
15, 16, 17	Construction Industries -----	32 791	24 536	95 616	8 293 809	21 517	21 301	1 245 085	11 274	3 235	95 616	7 048 724	1	1
15	Building construction—General contractors and operative builders ----	6 500	4 057	21 111	3 535 511	3 717	3 499	732 310	2 783	558	21 111	2 803 201	2	1
16	Heavy construction other than building construction— contractors -----	1 226	735	20 202	1 184 524	681	656	37 464	545	79	20 202	1 147 060	1	1
17	Special trade contractors -----	25 065	19 744	54 303	3 573 774	17 119	17 146	475 311	7 946	2 598	54 303	3 098 463	1	1
1711	Plumbing, heating, and air-conditioning --	3 367	2 190	11 567	857 201	1 731	1 728	66 087	1 636	462	11 567	791 114	2	2
1731	Electrical work -----	2 993	2 080	10 052	697 247	1 762	1 734	54 346	1 231	346	10 052	642 901	2	1
6552	Land subdividers and developers, n.e.c.² -----	380	223	688	123 280	281	204	94 421	99	19	688	28 859	8	17

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	61 171	45 908	143 625	19 210 213	43 312	42 436	3 563 092	17 859	3 472	143 625	15 647 121	1	1
\$10,000,000 or more	219	14	26 259	5 225 533	12	(D)	310 277	207	(D)	26 259	4 915 256	(W)	(W)
\$5,000,000 to \$9,999,999	310	43	14 595	2 136 364	43	(D)	300 561	267	(D)	14 595	1 835 803	1	2
\$2,500,000 to \$4,999,999	732	91	17 399	2 501 417	58	118	204 505	674	30	17 399	2 296 912	1	4
\$1,000,000 to \$2,499,999	2 045	328	25 463	3 125 522	273	218	412 943	1 772	110	25 463	2 712 579	2	3
\$500,000 to \$999,999	2 990	737	21 011	2 066 616	524	435	366 392	2 466	302	21 011	1 700 224	3	3
\$250,000 to \$499,999	(S)	(S)	(S)	(S)	1 317	1 161	451 602	(S)	(S)	(S)	(S)	(S)	(S)
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	4 049	3 882	622 125	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	5 646	5 557	398 740	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	7 467	7 362	264 755	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000	(S)	(S)	(S)	(S)	23 923	23 703	231 192	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	10 299	10 232	171 311	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	5 496	5 449	40 024	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	3 761	3 720	13 861	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	4 367	4 302	5 977	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	33 177	24 763	96 314	8 417 094	21 798	21 505	1 339 506	11 379	3 258	96 314	7 077 588	1	1
\$10,000,000 or more	92	18	24 191	(D)	5	6	(D)	87	12	24 191	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	101	6	6 640	2 495 514	3	4	534 579	98	2	6 640	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	239	13	9 734	4 145 953	10	8	35 362	229	5	9 734	4 110 591	(W)	(W)
\$1,000,000 to \$2,499,999	682	48	13 056	1 047 314	40	29	61 433	642	19	13 056	985 881	2	3
\$500,000 to \$999,999	1 045	103	11 740	728 313	74	54	48 855	971	49	11 740	679 458	4	4
\$250,000 to \$499,999	1 801	427	10 696	639 834	218	176	75 508	1 583	251	10 696	564 326	4	4
\$100,000 to \$249,999	4 287	2 060	12 373	672 170	1 084	1 029	157 480	3 203	1 031	12 373	514 690	4	3
\$50,000 to \$99,999	4 611	3 296	4 672	325 764	2 387	2 390	164 007	2 224	906	4 672	161 757	4	4
\$25,000 to \$49,999	5 056	4 324	1 944	179 915	3 784	3 763	132 314	1 272	561	1 944	47 601	5	5
Less than \$25,000	15 261	14 466	1 267	143 250	14 193	14 046	129 968	1 068	420	1 267	13 282	6	6
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	5 984	5 953	94 984	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	3 562	3 516	24 447	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	3 029	2 983	8 919	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	1 618	1 594	1 618	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	17 859	143 625	112 184	3 505 838	2 466 933	192 503	15 082 398	11 169 770
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3 243	15 444	12 259	284 227	194 084	19 911	1 508 197	1 088 391
1522	Other residential buildings -----	338	3 985	2 783	117 329	70 085	5 081	885 953	364 578
1531	Operative builders -----	956	5 535	3 171	149 206	69 882	6 016	1 275 204	746 256
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	169	3 148	2 263	82 553	51 094	3 956	607 382	283 315
1542	Nonresidential buildings, n.e.c. -----	805	13 440	10 038	369 016	237 593	17 201	2 528 221	1 205 109
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	287	3 991	3 283	116 293	87 865	5 626	508 928	435 731
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	19	514	433	14 303	11 338	815	60 456	46 072
1623	Water, sewer, and utility lines -----	245	3 378	2 711	95 696	69 327	5 136	358 332	322 497
1629	Heavy construction, n.e.c. -----	300	6 592	4 566	205 754	133 576	8 469	723 218	561 646
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	2 173	17 765	13 593	454 250	326 712	25 004	1 563 375	1 392 662
1721	Painting and paper hanging -----	974	5 210	4 446	94 539	74 905	6 755	264 982	250 162
1731	Electrical work -----	1 807	17 067	13 798	437 630	335 724	24 920	1 203 412	1 178 129
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	703	4 968	4 362	104 309	86 799	6 283	298 477	291 215
1742	Plastering, drywall, and insulation work -----	574	6 470	5 425	172 665	123 928	9 924	482 165	440 098
1743	Terrazzo, tile, marble, and mosaic work -----	101	577	481	16 256	11 926	712	44 310	42 216
175	Carpentry and floor work:								
1751	Carpentry -----	1 672	6 703	5 774	119 798	96 416	9 455	440 947	375 166
1752	Floor laying and other floor work -----	297	1 667	1 342	38 784	28 727	2 272	157 656	147 638
1761	Roofing, siding, and sheet metal work -----	724	6 262	4 991	129 169	89 670	7 732	444 392	407 039
1771	Concrete work -----	630	4 442	3 757	94 058	75 648	6 547	320 081	299 611
1781	Water well drilling -----	60	378	292	8 545	5 676	394	29 631	28 466
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	111	2 022	1 712	56 116	43 619	2 575	149 182	141 471
1793	Glass and glazing work -----	115	1 453	1 042	39 891	26 980	1 897	123 305	116 066
1794	Excavation work -----	581	4 236	3 339	109 312	76 984	5 558	423 366	386 561
1795	Wrecking and demolition work -----	35	327	268	7 199	5 729	484	32 808	30 603
1796	Installing building equipment, n.e.c. -----	85	1 618	1 308	57 392	45 560	2 504	150 103	145 356
1799	Special trade contractors, n.e.c. -----	598	5 385	4 456	108 301	82 274	6 835	378 371	347 292
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
7 056 735	4 419 176	3 912 628	235 844	260 507	1 638 571	96 314	6 900 454	3 086 626	1	1	3	15, 16, 17
												15
636 125	507 014	419 806	12 540	26 988	112 360	6 543	429 286	171 522	3	4	9	152
210 180	172 195	521 375	7 873	7 563	56 236	1 845	240 080	59 524	4	5	19	1521
												1522
369 665	410 626	528 948	7 119	15 547	182 545	1 327	131 543	47 389	5	6	13	1531
164 943	126 912	324 067	9 484	5 383	28 747	3 008	417 897	105 759	5	5	15	154
767 358	462 956	1 323 112	22 302	21 769	103 787	8 388	1 546 249	326 817	2	2	10	1541
												1542
												16
262 652	186 661	73 197	19 708	16 912	112 253	3 024	254 941	134 716	4	3	9	1611
29 143	(D)	14 384	4 029	1 322	13 853	335	31 785	18 647	6	9	20	162
224 219	103 131	35 834	15 966	16 035	96 794	2 880	193 708	109 390	4	4	12	1622
399 637	203 023	161 572	25 400	16 856	134 802	13 963	612 474	338 142	2	2	11	1623
												1629
												17
832 123	581 768	170 713	18 946	20 176	129 912	11 567	770 737	413 530	2	2	6	1711
198 646	53 253	14 819	3 390	3 968	23 352	3 860	134 435	97 367	4	3	13	1721
738 819	444 886	25 283	10 993	21 042	97 210	10 052	625 759	375 889	1	1	6	1731
201 844	90 900	7 262	4 866	6 198	30 115	2 819	140 551	85 573	4	4	12	174
287 807	157 718	42 067	5 878	6 245	27 204	3 749	195 379	110 523	5	3	15	1741
26 321	16 362	2 093	159	494	3 006	531	28 600	14 300	9	9	36	1742
												1743
228 119	159 479	65 781	4 076	9 712	35 243	3 562	157 674	82 060	4	4	14	175
83 572	66 601	10 018	1 980	2 056	13 901	948	66 026	33 771	6	6	17	1751
												1752
252 178	158 552	37 352	6 922	7 341	40 434	4 484	226 368	125 919	5	3	12	1761
197 318	106 917	20 470	7 054	14 685	77 570	2 519	125 897	73 679	4	4	14	1771
18 291	(D)	1 165	658	1 319	10 129	197	11 900	7 181	13	11	13	1781
110 820	33 729	7 711	6 513	1 988	19 280	1 020	35 401	26 211	4	6	15	179
61 537	59 161	7 239	2 834	1 408	9 938	966	75 057	39 322	6	4	12	1791
295 260	107 789	36 805	25 557	22 685	146 109	3 578	191 478	135 983	5	5	15	1793
27 366	3 705	2 205	1 998	788	5 773	321	13 879	10 485	8	7	17	1794
105 236	41 572	4 747	1 896	1 327	10 509	1 371	84 265	56 914	2	2	11	1795
238 724	122 616	31 079	6 897	7 722	43 358	2 759	143 465	80 207	4	4	16	1796
												1797
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	17 859	11 379	11 690	13 059	1	2	2	3
Proprietors and working partners	3 472	3 258	5 217	6 286	4	3	4	4
All employees**	143 625	96 314	87 444	113 926	1	1	1	1
Construction workers:								
March	98 507	66 433	52 790	75 774	1	1	1	2
May	113 708	79 663	70 531	90 896	1	1	1	2
August	123 974	84 080	75 320	103 654	1	1	1	2
November	112 549	80 712	67 124	94 066	1	1	1	2
Average	112 184	78 879	66 503	92 554	1	1	1	2
Other employees:								
March	30 379	17 257	19 938	20 328	1	1	1	2
May	31 205	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	31 996	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	32 202	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	31 445	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	41 215	26 690	(NA)	(NA)	1	1	(NA)	(NA)
April to June	48 622	32 160	(NA)	(NA)	1	1	(NA)	(NA)
July to September	53 332	35 038	(NA)	(NA)	1	1	(NA)	(NA)
October to December	49 332	33 623	(NA)	(NA)	1	1	(NA)	(NA)
Total hours worked	192 503	127 513	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	3 505 838	1 690 932	1 227 584	1 246 931	(W)	1	1	1
Payroll, construction workers	2 466 933	1 285 983	853 333	970 183	(W)	1	1	1
Payroll, other employees	1 038 904	404 949	374 251	276 748	1	1	1	1
First quarter payroll, all employees	730 519	357 796	253 807	(NA)	1	1	(W)	(NA)
Employer costs for fringe benefits, all employees	798 234	319 461	228 164	(NA)	1	1	1	(NA)
Legally required expenditures	536 045	225 673	112 207	(NA)	1	1	1	(NA)
Voluntary expenditures	262 189	93 788	115 957	(NA)	1	1	(W)	(NA)
Dollar value of business done	15 647 121	7 077 588	4 210 069	4 538 602	1	1	1	1
Value of construction work ¹	15 082 398	6 900 454	4 073 613	4 442 322	1	1	1	1
Value of construction work subcontracted in from others	3 664 869	1 559 565	897 370	901 707	1	1	1	2
Land receipts ²	258 581	28 442	(NA)	(NA)	5	9	(NA)	(NA)
Other business receipts	306 141	148 691	136 456	96 280	3	2	3	6
Net value of construction†	11 169 770	4 949 906	3 034 340	3 390 823	1	1	1	1
Value added††	7 056 735	3 086 626	1 934 012	2 135 620	1	1	1	1
Selected costs	8 331 804	3 962 519	2 248 322	2 376 539	1	1	1	1
Materials, components, and supplies ³	4 217 577	1 896 810	1 142 468	1 325 040	1	1	1	1
Construction work subcontracted to others	3 912 628	1 950 548	1 039 273	1 051 499	1	1	1	2
Selected power, fuels, and lubricants	201 599	115 160	66 581	(NA)	1	2	1	(NA)
Electricity	28 567	16 765	10 358	(NA)	2	2	2	(NA)
Natural gas	6 329	4 137	3 444	(NA)	3	3	4	(NA)
Gasoline and diesel fuel	153 246	85 954	43 423	(NA)	1	2	1	(NA)
On highway use	118 149	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use	35 097	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	13 454	8 303	9 360	(NA)	3	4	3	(NA)
Rental cost for machinery, equipment, and buildings	235 844	101 408	64 664	(NA)	2	2	1	(NA)
For machinery and equipment	165 791	77 140	51 214	59 394	3	2	2	4
For buildings	70 052	24 268	13 450	(NA)	2	2	2	(NA)
Selected purchased services	192 963	94 117	65 688	(NA)	1	2	1	(NA)
Communication services	63 789	31 298	24 156	(NA)	2	2	1	(NA)
Repairs to buildings and other structures	14 042	4 971	2 850	(NA)	4	3	5	(NA)
Repairs to machinery and equipment	115 131	57 848	38 683	(NA)	2	2	1	(NA)
Ownership of construction projects:								
Value of construction work	15 082 398	6 900 454	4 073 613	4 442 322	1	1	1	1
Government owned	2 233 825	1 314 453	1 017 298	1 393 907	2	2	1	2
Federal	407 096	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	1 826 728	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Privately owned	12 848 573	5 586 000	3 056 315	3 048 415	1	1	1	1

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Lend Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	1 517 186	1 012 973	4	2
Capital expenditures, other than land -----	260 507	112 297	3	2
New -----	220 422	82 148	3	2
Used -----	40 085	30 148	6	3
Retirements and disposition of depreciable assets -----	139 122	39 868	18	2
End-of-year gross book value of depreciable assets -----	1 638 571	1 085 401	3	2
Depreciation charges during year -----	221 060	125 526	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	459 168	213 252	12	3
Capital expenditures, other than land -----	33 361	34 730	7	1
New buildings and other structures -----	24 142	23 977	8	1
Used buildings and other structures -----	9 218	10 752	16	2
Retirements and disposition of depreciable assets -----	88 361	8 728	29	3
End-of-year gross book value of depreciable assets -----	404 168	239 254	9	3
Depreciation charges during year -----	34 631	20 586	8	4
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	1 058 018	799 837	2	2
Capital expenditures, other than land -----	227 145	77 567	3	3
New machinery and equipment, including automobiles and trucks -----	196 279	58 170	3	3
New automobiles and trucks, intended primarily for highway use -----	103 320	26 389	3	4
Used machinery and equipment, including automobiles and trucks -----	30 866	19 396	6	5
Retirements and disposition of depreciable assets -----	50 761	31 257	9	2
End-of-year gross book value of depreciable assets -----	1 234 403	846 147	2	2
Depreciation charges during year -----	186 429	104 940	2	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	17 859	1
Value of construction work	15 082 398	1
Establishments with inventories:		
Number	6 515	2
Value of construction work	6 712 964	2
Inventories¹:		
End of 1987, materials and supplies	178 526	5
End of 1986, materials and supplies	168 921	5
Establishments with no inventories:		
Number	8 632	2
Value of construction work	5 953 861	2
Establishments not reporting:		
Number	2 712	4
Value of construction work	2 415 573	2

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments	17 859	(S)	4 079	1 960	1 037	239	104	15	3	2	
All employees**	143 625	(S)	26 200	25 767	29 860	16 171	14 599	4 735	5 000	(D)	
Payroll, all employees	3 505 838	(S)	517 487	595 326	773 674	492 611	474 052	126 858	150 565	(D)	
Construction worker hours (thousands)	192 503	(S)	34 052	32 885	41 130	23 146	20 996	7 026	4 996	(D)	
Dollar value business done	15 647 121	(S)	2 322 465	2 460 784	3 325 408	2 185 199	2 480 375	(D)	645 186	(D)	
Value of construction work ¹	15 082 398	(S)	2 222 872	2 352 997	3 227 491	2 127 814	1 829 885	1 217 153	(D)	(D)	
Net value of construction work†	11 169 770	(S)	1 787 325	1 876 601	2 388 061	1 448 703	1 303 210	382 513	335 203	(D)	
Value added††	7 056 735	(S)	1 112 992	1 196 394	1 530 222	907 264	849 606	240 459	269 438	(D)	
Cost of materials, components, supplies, and fuels	4 419 176	(S)	715 927	725 862	918 123	584 351	735 780	(D)	(D)	(D)	
Cost of construction work subcontracted to others	3 912 628	(S)	435 546	476 395	839 430	679 111	526 675	499 437	(D)	(D)	
Rental cost for machinery, equipment, and buildings	235 844	(S)	36 593	38 690	53 271	40 730	30 021	9 565	4 897	(D)	
Capital expenditures, other than land	260 507	(S)	49 536	54 541	59 830	26 086	13 980	2 790	6 252	(D)	
End-of-year gross book value of depreciable assets	1 638 571	(S)	316 776	319 095	392 535	146 125	108 763	61 395	(D)	(D)	
1982											
All employees**	96 314	14 320	14 708	15 316	16 687	10 031	7 310	4 952	-	12 988	
Value of construction work ¹	6 900 454	750 629	755 538	986 994	1 353 661	1 021 137	979 826	381 756	-	670 912	
Value added††	3 086 626	365 770	371 946	503 908	595 387	446 041	300 209	192 919	-	310 444	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	3	2	2	(W)	(W)	(W)	(W)	(D)	
Net value of construction work†	1	(S)	3	2	1	(W)	(W)	(W)	(W)	(D)	
Capital expenditures, other than land	3	(S)	9	6	5	1	(W)	(W)	(W)	(D)	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	17 859	(S)	(S)	(S)	(S)	(S)	2 466	1 772	674	267	207
All employees**	143 625	(S)	(S)	(S)	(S)	(S)	21 011	25 463	17 399	14 595	26 259
Payroll, all employees	3 505 838	(S)	(S)	(S)	(S)	(S)	435 985	635 829	497 074	436 465	882 688
Construction worker hours (thousands)	192 503	(S)	(S)	(S)	(S)	(S)	27 457	33 409	24 456	20 753	35 286
Dollar value of business done	15 647 121	(S)	(S)	(S)	(S)	(S)	1 700 224	2 712 579	2 296 912	1 835 803	4 915 256
Value of construction work ¹	15 082 398	(S)	(S)	(S)	(S)	(S)	1 625 030	2 577 940	2 197 059	1 768 735	4 773 802
Net value of construction work†	11 169 770	(S)	(S)	(S)	(S)	(S)	1 374 117	2 080 218	1 674 113	1 328 955	2 788 161
Value added††	7 056 735	(S)	(S)	(S)	(S)	(S)	850 875	1 313 283	1 055 592	854 160	1 772 545
Cost of materials, components, supplies, and fuels	4 419 176	(S)	(S)	(S)	(S)	(S)	568 913	822 780	649 612	508 985	1 123 619
Cost of construction work subcontracted to others	3 912 628	(S)	(S)	(S)	(S)	(S)	250 913	497 722	522 945	439 779	1 985 641
Rental cost for machinery, equipment, and buildings	235 844	(S)	(S)	(S)	(S)	(S)	28 551	42 208	37 819	28 452	70 848
Capital expenditures, other than land	260 507	(S)	(S)	(S)	(S)	(S)	39 265	62 376	47 055	18 030	38 237
End-of-year gross book value of depreciable assets	1 638 571	(S)	(S)	(S)	(S)	(S)	245 548	362 176	245 098	137 645	291 007
1982											
All employees**	96 314	1 267	1 944	4 672	12 373	10 696	11 740	13 056	9 734	6 640	24 191
Value of construction work ¹	6 900 454	13 136	46 862	159 376	504 409	549 302	659 767	959 031	783 576	673 229	2 551 764
Value added††	3 086 626	7 021	26 879	87 130	275 498	283 506	352 458	472 281	383 814	283 647	914 389
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	(S)	(S)	3	2	1	1	(W)
Net value of construction work†	1	(S)	(S)	(S)	(S)	(S)	3	2	3	2	(W)
Capital expenditures, other than land	3	(S)	(S)	(S)	(S)	(S)	9	8	7	3	2

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	15 082 398	9 251 021	3 509 549	1 580 702	1	1	1	1
Building construction	12 064 391	7 790 200	2 970 683	1 238 619	1	1	1	2
Single-family houses	3 789 369	2 711 130	760 970	317 268	2	3	4	4
Single-family houses, detached	3 033 099	2 080 143	686 792	266 164	2	3	4	4
Single-family houses, attached	756 269	630 987	74 177	51 104	6	6	15	12
Apartment buildings with two or more apartments	1 068 727	668 113	309 443	91 170	2	2	5	5
Other residential buildings, including hotels and motels	635 016	476 928	108 470	49 618	5	6	8	8
Hotels and motels	262 764	220 247	30 236	12 281	3	3	10	9
Other residential buildings, excluding hotels and motels	372 251	256 681	78 233	37 336	8	10	10	11
Office buildings	2 293 369	1 558 520	555 868	178 981	1	1	2	4
Other commercial buildings such as stores, restaurants, and automobile service stations	1 324 860	724 467	408 469	191 924	2	2	3	3
Industrial buildings and warehouses	1 473 380	920 906	329 548	222 925	2	2	2	4
Industrial buildings	1 185 913	714 526	270 168	201 218	2	2	2	4
Warehouses	287 467	206 380	59 380	21 706	5	7	3	7
Religious buildings	103 696	37 683	43 626	22 387	5	4	7	15
Educational buildings	582 664	322 274	180 545	79 844	2	1	4	3
Hospitals and institutional buildings	572 163	302 034	219 316	50 813	1	1	2	5
Amusement, social, and recreational buildings	53 178	30 288	18 353	4 537	14	23	14	9
Other nonresidential buildings	103 080	37 857	36 075	29 152	11	8	14	26
Land development for buildings	64 889	(NA)	(NA)	(NA)	10	(NA)	(NA)	(NA)
Nonbuilding construction	2 341 771	1 460 821	538 866	342 083	1	1	2	3
Highways, streets, and related facilities	552 653	293 833	176 761	82 058	2	3	4	5
Outdoor swimming pools	58 228	51 845	3 254	3 128	10	11	14	24
Parking areas including private driveways	127 660	91 574	17 924	18 161	6	6	13	12
Bridges, tunnels, and elevated highways	143 585	67 032	47 628	28 923	7	9	5	19
Tunnels	19 208	12 922	5 192	1 094	33	36	47	28
Bridges and elevated highways	124 376	54 110	42 436	27 829	6	7	1	20
Power and communication transmission lines, towers, and related facilities	82 889	52 284	14 861	15 743	6	5	4	20
Sewers, water mains, and related facilities	437 648	352 626	47 091	37 930	4	4	6	8
Sewers, sewer lines, and related facilities	263 751	219 955	28 573	15 221	4	4	6	10
Water mains and related facilities	173 897	132 670	18 517	22 709	6	7	11	10
Mass transit construction	145 486	54 123	65 740	5 622	(W)	(W)	(W)	(W)
Blast furnaces, petroleum refineries, and chemical complexes	48 258	22 931	6 275	19 051	3	6	9	2
Power plants	146 602	83 283	13 758	49 560	1	1	2	1
Power plants, nuclear	34 788	(D)	(D)	15 670	1	(D)	(D)	3
Power plants, except nuclear	111 813	(D)	(D)	33 889	1	(D)	(D)	1
Sewage treatment and water treatment plants	209 509	162 678	32 623	14 208	3	1	10	24
Sewage treatment plants	114 058	89 038	20 155	4 864	3	2	12	38
Water treatment plants	95 451	73 639	12 467	9 344	3	1	7	31
Earthmoving, nonbuilding	66 528	56 021	6 913	3 593	9	9	13	17
Other nonbuilding construction	322 725	172 591	86 037	64 106	6	8	4	12
Construction work, n.s.k.	676 236	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	6 900 454	5 337 567	(NA)	1 562 887	1	1	(NA)	1
Building construction	4 960 596	3 871 598	(NA)	1 088 998	1	1	(NA)	1
Single-family houses	969 044	703 967	(NA)	265 076	3	3	(NA)	3
Single-family houses, detached	841 393	607 232	(NA)	234 161	3	3	(NA)	3
Single-family houses, attached	127 650	96 735	(NA)	30 915	6	7	(NA)	14
Apartment buildings with two or more apartments	482 695	365 730	(NA)	116 964	2	2	(NA)	6
Other residential buildings, including hotels and motels	200 834	174 584	(NA)	26 250	2	2	(NA)	7
Office buildings	1 170 096	986 587	(NA)	183 509	1	1	(NA)	2
Other commercial buildings such as stores, restaurants, and automobile service stations	496 288	383 857	(NA)	112 431	2	2	(NA)	4
Industrial buildings and warehouses	882 627	662 247	(NA)	220 380	2	2	(NA)	3
Industrial buildings	751 690	552 980	(NA)	198 710	2	2	(NA)	4
Warehouses	130 936	109 267	(NA)	21 669	3	4	(NA)	5
Religious buildings	45 042	26 704	(NA)	18 338	5	6	(NA)	8
Educational buildings	213 925	152 195	(NA)	61 730	1	2	(NA)	3
Hospitals and institutional buildings	413 383	347 821	(NA)	65 562	1	1	(NA)	4
Amusement, social, and recreational buildings	49 210	42 368	(NA)	6 841	6	6	(NA)	14
Other nonresidential buildings	37 452	25 538	(NA)	11 917	11	11	(NA)	15
Nonbuilding construction	1 486 942	1 102 811	(NA)	384 130	1	1	(NA)	2
Highways, streets, and related facilities	349 112	204 651	(NA)	144 460	3	3	(NA)	4
Bridges, tunnels, and elevated highways	51 620	44 311	(NA)	7 308	2	(W)	(NA)	11
Power and communication transmission lines, towers, and related facilities	178 826	151 524	(NA)	27 302	1	1	(NA)	3
Sewers, water mains, and related facilities	157 810	116 823	(NA)	40 986	4	5	(NA)	7
Sewers, sewer lines, and related facilities	103 478	80 856	(NA)	22 622	5	6	(NA)	10
Water mains and related facilities	54 331	35 967	(NA)	18 364	8	12	(NA)	9
Mass transit construction	97 751	88 515	(NA)	9 235	1	(W)	(NA)	6
Subways	87 205	86 727	(NA)	477	(W)	(W)	(NA)	(W)
Railroads	10 546	1 788	(NA)	8 757	5	8	(NA)	6
Heavy industrial facilities	465 544	353 238	(NA)	112 305	(W)	(W)	(NA)	1
Blast furnaces, petroleum refineries, and chemical complexes	11 801	7 605	(NA)	4 195	5	4	(NA)	6
Power plants	453 742	345 632	(NA)	108 110	(W)	(W)	(NA)	1
Power plants, nuclear	262 744	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Power plants, except nuclear	190 998	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Sewage treatment and water treatment plants	73 423	66 764	(NA)	6 658	4	4	(NA)	13
Sewage treatment plants	52 506	47 762	(NA)	4 744	5	5	(NA)	13
Water treatment plants	20 916	19 002	(NA)	1 914	5	5	(NA)	33
Other nonbuilding construction	112 856	76 985	(NA)	35 876	7	8	(NA)	14
Construction work, n.s.k.	452 916	363 157	(NA)	89 757	3	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and land subdividers and developers -----	17 859	112 184	192 503	98 507	41 215	113 708	48 622
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	3 243	12 259	19 911	10 766	4 267	12 209	5 142
1522	Other residential buildings -----	338	2 783	5 081	2 630	1 166	2 804	1 259
1531	Operative builders -----	956	3 171	6 016	2 876	1 365	3 221	1 580
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	169	2 263	3 956	2 158	926	2 225	985
1542	Nonresidential buildings, n.e.c. -----	805	10 038	17 201	8 854	3 701	9 758	4 187
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	287	3 283	5 626	1 840	710	3 702	1 534
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	19	433	815	256	102	471	203
1623	Water, sewer, and utility lines -----	245	2 711	5 136	1 984	880	2 870	1 364
1629	Heavy construction, n.e.c. -----	300	4 566	8 469	3 791	1 727	4 822	2 226
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	2 173	13 593	25 004	12 902	5 777	13 393	6 183
1721	Painting and paper hanging -----	974	4 446	6 755	3 495	1 328	4 688	1 733
1731	Electrical work -----	1 807	13 798	24 920	13 464	6 028	13 704	6 123
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	703	4 362	6 283	3 587	1 184	4 478	1 668
1742	Plastering, drywall, and insulation work --	574	5 425	9 924	4 769	2 188	5 418	2 449
1743	Terrazzo, tile, marble, and mosaic work _	101	481	712	447	167	535	192
175	Carpentry and floor work:							
1751	Carpentry -----	1 672	5 774	9 455	5 764	2 306	5 823	2 335
1752	Floor laying and other floor work -----	297	1 342	2 272	1 295	517	1 307	561
1761	Roofing, siding, and sheet metal work -----	724	4 991	7 732	4 056	1 446	5 130	1 904
1771	Concrete work -----	630	3 757	6 547	2 513	1 012	3 967	1 714
1781	Water well drilling -----	60	292	394	271	85	323	99
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	111	1 712	2 575	1 644	581	1 881	684
1793	Glass and glazing work -----	115	1 042	1 897	1 004	440	981	433
1794	Excavation work -----	581	3 339	5 558	2 612	1 045	3 461	1 413
1795	Wrecking and demolition work -----	35	268	484	228	105	278	125
1796	Installing building equipment, n.e.c. -----	85	1 308	2 504	1 251	590	1 311	634
1799	Special trade contractors, n.e.c. -----	598	4 456	6 835	3 788	1 458	4 657	1 768
6552	Land subdividers and developers, n.e.c. --	(S)	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
123 974	53 332	112 549	49 332	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
14 133 2 947	5 544 1 337	11 927 2 755	4 957 1 317	3 4	4 6	3 4	4 6	3 5	4 6	5 4	4 6	3 4	4 6	152 1521 1522
3 599	1 700	2 989	1 370	6	7	6	8	6	8	6	8	6	7	1531
														154
2 384 10 614	1 066 4 579	2 287 10 927	978 4 731	4 2	6 3	5 2	6 3	4 2	6 3	5 2	8 3	5 2	7 3	1541 1542
														16
3 985	1 814	3 606	1 566	4	4	4	4	4	4	4	4	4	4	1611
														162 1622
560 3 073 4 892	283 1 491 2 273	447 2 915 4 758	226 1 399 2 242	6 4 2	8 6 3	5 4 2	9 6 3	5 4 2	8 6 3	6 4 3	7 6 3	8 4 2	11 6 3	1623 1629
														17
14 652	6 755	13 426	6 287	2	2	2	2	2	2	3	4	2	2	1711
5 524	2 089	4 078	1 603	4	5	4	5	4	5	5	5	4	5	1721
14 684	6 548	13 342	6 219	1	2	1	2	1	2	1	2	2	2	1731
														174
4 788 6 026 486	1 829 2 700 173	4 603 5 487 456	1 601 2 586 178	4 5 9	5 8 14	5 4 11	5 7 15	4 5 12	5 8 16	5 6 9	5 9 14	4 6 8	6 10 18	1741 1742 1743
5 990 1 411	2 504 620	5 521 1 354	2 308 572	4 7	5 9	7 6	8 9	4 7	5 10	4 7	5 9	4 7	5 10	175 1751 1752
5 707	2 295	5 076	2 085	5	5	5	6	7	5	5	6	4	5	1761
4 505	2 011	4 051	1 808	4	5	4	6	4	5	4	5	4	5	1771
306	103	271	105	13	17	12	19	14	18	13	15	13	19	1781
														179
1 790 1 112 3 727 317 1 320 5 115	694 523 1 581 148 633 1 909	1 534 1 071 3 557 250 1 350 4 269	614 500 1 517 105 645 1 698	4 6 5 8 2 4	5 8 6 12 4 5	4 6 5 8 2 4	5 8 7 13 4 6	4 6 5 10 2 4	5 8 6 12 5 6	5 6 5 8 2 4	7 6 6 13 4 5	5 6 5 6 3 4	5 8 5 9 4 5	1791 1793 1794 1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees* per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	8.0	24.4	1 716.0	134.4	.232	.293	.259	.016
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.8	18.4	1 624.2	123.0	.188	.336	.278	.008
1522	Other residential buildings	11.8	29.4	1 825.7	318.3	.132	.194	.588	.009
1531	Operative builders	5.8	27.0	1 897.2	402.1	.117	.322	.415	.006
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	18.6	26.2	1 748.1	268.4	.136	.209	.534	.016
1542	Nonresidential buildings, n.e.c.	16.7	27.5	1 713.6	251.9	.146	.183	.523	.009
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	13.9	29.1	1 713.7	155.0	.229	.367	.144	.039
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	27.1	27.8	1 882.2	139.6	.237	(D)	.238	.067
1623	Water, sewer, and utility lines	13.8	28.3	1 894.5	132.2	.267	.288	.100	.045
1629	Heavy construction, n.e.c.	22.0	31.2	1 854.8	158.4	.284	.281	.223	.035
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	8.2	25.6	1 839.5	115.0	.291	.372	.109	.012
1721	Painting and paper hanging	5.3	18.1	1 519.3	59.6	.357	.201	.056	.013
1731	Electrical work	9.4	25.6	1 806.1	87.2	.364	.370	.021	.009
174	Masonry, stoneowrk, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	7.1	21.0	1 440.4	68.4	.349	.305	.024	.016
1742	Plastering, drywall, and insulation work	11.3	26.7	1 829.3	88.9	.358	.327	.087	.012
1743	Terrazzo, tile, marble, and mosaic work	5.7	28.2	1 480.2	92.1	.367	.369	.047	.004
175	Carpentry and floor work:								
1751	Carpentry	4.0	17.9	1 637.5	76.4	.272	.362	.149	.009
1752	Floor laying and other floor work	5.6	23.3	1 693.0	117.5	.246	.422	.064	.013
1761	Roofing, siding, and sheet metal work	8.6	20.6	1 549.2	89.0	.291	.357	.084	.016
1771	Concrete work	7.1	21.2	1 742.6	85.2	.294	.334	.064	.022
1781	Water well drilling	6.3	22.6	1 349.3	101.5	.288	(D)	.039	.022
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	18.2	27.8	1 504.1	87.1	.376	.226	.052	.044
1793	Glass and glazing work	12.6	27.5	1 820.5	118.3	.324	.480	.059	.023
1794	Excavation work	7.3	25.8	1 664.6	126.8	.258	.255	.087	.060
1795	Wrecking and demolition work	9.3	22.0	1 806.0	122.4	.219	.113	.067	.061
1796	Installing building equipment, n.e.c.	19.0	35.5	1 914.4	114.8	.382	.277	.032	.013
1799	Special trade contractors, n.e.c.	9.0	20.1	1 533.9	84.9	.286	.324	.082	.018
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17	BOSTON-LAWRENCE-SALEM, MA-NH CMSA											
	Construction industries and land subdividers and developers	12 195	106 775	2 682 394	11 630 374	8 529 645	5 464 036	3 268 597	3 100 728	193 944	1	1
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	Single-family houses	2 036	9 878	190 367	969 012	695 776	419 802	302 597	273 236	15 183	3	4
	Other residential buildings	240	3 381	105 650	784 248	319 516	183 151	151 717	464 733	6 805	4	5
	Operative builders	741	5 232	137 526	1 122 028	652 314	344 524	339 463	469 714	17 161	5	5
	General contractors, nonresidential buildings:											
	Industrial buildings and warehouses	112	1 811	49 158	345 773	184 633	121 176	67 228	161 141	4 173	7	7
	Nonresidential buildings, n.e.c.	602	11 190	309 723	2 150 883	1 028 667	680 012	368 355	1 122 216	16 738	2	2
	Heavy construction other than building construction—contractors:											
	Highway and street construction	209	2 902	82 791	360 572	304 567	189 073	127 387	56 004	12 721	5	4
	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	15	410	10 805	48 025	38 665	26 551	(D)	9 360	1 192	8	11
	Water, sewer, and utility lines	174	2 385	70 525	272 073	167 525	79 922	29 099	12 992	4 4	4	4
	Heavy construction, n.e.c.	238	3 916	120 964	548 404	420 131	304 894	129 445	128 274	14 271	3	2
17	Special trade contractors:											
	Plumbing, heating, and air- conditioning	1 560	13 709	355 800	1 204 864	1 067 992	634 001	449 862	136 873	14 568	2	2
	Painting and paper hanging	622	3 731	67 229	195 922	184 802	146 109	39 350	11 119	2 962	4	3
	Electrical work	1 316	13 760	357 633	955 887	938 351	592 182	350 885	17 536	16 133	2	1
	Masonry, stonework, tile setting, and plastering:											
	Masonry, stone setting, and other stonework	483	3 836	80 937	228 131	222 520	152 889	70 661	5 611	4 832	4	4
	Plastering, drywall, and insulation work	400	5 242	147 781	429 323	378 598	249 818	131 099	50 726	4 314	6	4
	Terrazzo, tile, marble, and mosaic work	79	521	14 503	39 743	37 977	23 842	14 594	1 766	*371	9	9
	Carpentry and floor work:											
	Carpentry	1 084	4 297	78 246	294 183	245 810	145 583	110 265	48 373	4 505	5	5
	Floor laying and other floorwork	197	1 271	32 394	122 343	115 643	64 470	52 839	6 700	959	6	3
	Roofing, siding, and sheet metal work	478	4 064	89 198	283 720	264 310	166 971	100 264	19 410	4 924	5	4
	Concrete work	360	2 788	64 715	219 402	208 045	136 923	73 216	11 357	10 133	4	4
	Water well drilling	45	272	6 492	21 397	20 354	13 518	(D)	*1 044	1 287	16	11
	Miscellaneous special trade contractors:											
6552	Structural steel erection	80	1 635	46 387	120 354	115 664	91 554	26 142	4 691	1 473	5	7
	Glass and glazing work	90	1 153	32 797	97 798	91 805	49 020	46 072	5 993	1 143	7	5
	Excavation work	340	2 579	65 741	244 880	225 527	167 306	67 881	19 354	14 477	6	5
	Wrecking and demolition work	27	299	6 657	32 944	30 769	27 428	3 435	2 175	496	10	7
	Installing building equipment, n.e.c. ..	58	1 317	48 081	121 683	118 487	82 648	36 539	3 196	677	3	3
	Special trade contractors, n.e.c.	411	4 435	91 596	310 845	284 953	198 798	98 881	25 892	6 997	4	4
	Land subdividers and developers, n.e.c.	199	761	18 700	105 936	90 798	84 275	10 233	15 139	2 460	7	13
	BOSTON, MA PMSA											
	Construction industries and land subdividers and developers	8 065	75 301	1 971 028	8 662 678	6 189 758	4 020 477	2 310 510	2 472 921	122 302	1	1
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	Single-family houses	1 314	6 458	131 649	659 568	458 981	289 257	190 082	200 588	9 762	4	5
	Other residential buildings	169	2 656	86 518	682 454	260 746	145 985	123 926	421 707	4 959	4	5
	Operative builders	454	2 940	77 807	659 484	352 841	185 516	190 171	306 644	7 008	6	7
	General contractors, nonresidential buildings:											
	Industrial buildings and warehouses	80	1 226	33 511	256 964	136 028	92 544	46 056	120 937	2 750	9	10
	Nonresidential buildings, n.e.c.	451	8 796	250 850	1 839 365	878 234	584 115	308 087	961 130	12 665	2	2

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	BOSTON, MA PMSA—Con.											
	Construction Industries and land subdividers and developers—Con. Construction Industries—Con.											
15,16, 17	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	156	2 002	55 492	251 393	202 784	127 246	82 516	48 609	7 836	6	5
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	11	303	7 153	29 245	24 850	16 858	(D)	4 395	989	11	16
1623	Water, sewer, and utility lines-----	98	1 343	39 585	149 350	133 740	93 500	(D)	15 610	4 505	6	5
1629	Heavy construction, n.e.c.-----	144	2 784	95 280	446 271	330 434	243 066	99 001	115 837	9 333	3	2
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	1 118	10 196	270 855	920 313	806 517	478 889	337 073	113 796	10 340	3	3
1721	Painting and paper hanging-----	425	2 903	55 594	162 101	154 163	121 702	32 794	7 938	2 331	4	3
1731	Electrical work-----	915	10 614	283 529	747 275	731 774	466 002	269 196	15 500	12 824	2	2
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	304	2 791	60 255	172 033	168 808	116 450	53 352	3 225	3 246	4	5
1742	Plastering, drywall, and insulation work-----	258	3 193	96 083	266 761	241 378	162 873	78 809	25 383	2 323	4	4
1743	Terrazzo, tile, marble, and mosaic work-----	53	414	12 354	31 297	30 144	19 095	11 493	1 153	*277	9	9
175	Carpentry and floor work:											
1751	Carpentry-----	666	2 716	52 908	205 709	169 180	100 759	77 098	36 529	2 776	7	6
1752	Floor laying and other floorwork-----	132	1 065	28 378	104 708	99 138	55 042	45 532	5 570	819	7	4
1761	Roofing, siding, and sheet metal work-----	305	2 683	63 090	195 128	183 445	114 605	71 556	11 683	2 561	5	4
1771	Concrete work-----	219	1 797	42 643	136 859	131 242	86 715	44 940	5 617	6 860	5	6
1781	Water well drilling-----	*25	142	3 662	11 376	10 872	7 418	(D)	*503	585	19	18
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	56	1 279	39 224	98 970	95 055	78 505	18 462	3 915	1 029	5	8
1793	Glass and glazing work-----	58	816	22 235	68 959	63 667	34 915	30 888	5 292	831	9	7
1794	Excavation work-----	217	1 768	47 032	170 883	155 362	118 233	45 776	15 521	9 662	6	5
1795	Wrecking and demolition work-----	15	192	4 386	22 709	21 161	19 087	2 087	1 548	*515	(W)	(W)
1796	Installing building equipment, n.e.c.-----	41	1 019	39 187	96 818	95 698	67 159	29 164	1 120	500	4	4
1799	Special trade contractors, n.e.c.-----	240	2 748	60 126	193 967	179 607	125 053	62 787	14 360	3 522	5	4
6552	Land subdividers and developers, n.e.c.-----	141	457	11 643	82 721	73 911	69 890	6 060	8 810	*1 695	10	16
	BROCKTON, MA PMSA											
	Construction Industries and land subdividers and developers-----	476	4 124	92 274	382 859	329 699	194 278	139 335	53 160	7 802	7	4
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings-----	9	101	3 037	15 644	11 024	5 067	5 957	*4 620	(S)	19	22
1531	Operative builders-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	8	127	3 105	20 810	14 230	8 106	6 124	6 580	(D)	(W)	(W)
1542	Nonresidential buildings, n.e.c.-----	11	175	4 719	19 104	8 991	6 696	2 496	10 113	239	10	(W)
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	11	174	6 194	44 552	(D)	19 764	22 271	(D)	*321	13	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	9	151	4 008	23 690	19 592	7 420	12 173	4 098	(D)	25	18
1629	Heavy construction, n.e.c.-----	12	534	12 307	(D)	40 648	27 575	(D)	(D)	(D)	8	5

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	BROCKTON, MA PMSA—Con.											
	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
15,16, 17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	49	333	7 539	27 998	26 671	12 965	13 979	1 327	829	10	17
1721	Painting and paper hanging-----	17	40	403	1 490	1 347	1 057	(D)	*143	(D)	4	23
1731	Electrical work-----	59	563	14 408	36 430	36 182	24 262	12 223	248	*892	8	7
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work-----	30	*476	9 464	24 109	23 322	15 201	(D)	787	*339	55	35
1743	Terrazzo, tile, marble, and mosaic work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work-----	27	130	3 137	11 078	9 988	6 593	3 395	1 090	242	5	7
1771	Concrete work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1781	Water well drilling-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	3	38	617	1 505	(D)	1 140	(D)	(D)	-	(W)	(D)
1793	Glass and glazing work-----	8	88	2 039	6 479	6 409	3 084	(D)	70	63	(W)	(W)
1794	Excavation work-----	6	20	526	1 999	1 917	1 494	(D)	(S)	(D)	10	19
1795	Wrecking and demolition work-----	5	61	1 233	*4 927	*4 534	3 466	*1 068	(S)	(D)	38	41
1796	Installing building equipment, n.e.c.-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	23	134	2 251	9 610	8 678	4 143	*4 638	*932	(S)	32	35
6552	Land subdividers and developers, n.e.c.-----	7	42	1 181	3 867	2 309	2 685	768	1 558	(D)	17	9
	LAWRENCE-HAVERHILL, MA-NH PMSA											
	Construction industries and land subdividers and developers-----	1 247	8 756	197 477	793 655	640 911	426 504	241 057	152 744	22 615	2	3
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	211	922	16 003	87 995	68 437	41 776	(D)	19 558	1 497	11	16
1522	Other residential buildings-----	15	202	5 375	20 896	10 944	10 902	(D)	9 952	(D)	14	13
1531	Operative builders-----	94	640	18 213	128 782	80 827	(D)	34 671	47 956	2 234	12	12
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c.-----	35	445	10 475	49 422	28 310	17 973	(D)	21 113	822	14	12
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	14	286	8 061	22 719	19 773	15 161	7 752	2 946	2 819	13	9
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	23	333	(D)	(D)	36 301	(D)	11 432	1 704	3 981	10	11
1629	Heavy construction, n.e.c.-----	26	228	6 085	(D)	21 539	15 121	7 758	(D)	3 139	11	5

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17	LAWRENCE-HAVERHILL, MA-NH PMSA—Con.											
	Construction Industries and land subdividers and developers—Con. Construction industries—Con.											
	Special trade contractors:											
	1711 Plumbing, heating, and air- conditioning-----	141	978	24 483	78 573	72 541	48 720	(D)	6 032	1 042	6	6
	1721 Painting and paper hanging-----	49	184	2 613	6 055	5 668	4 262	(D)	*387	(D)	25	20
	1731 Electrical work-----	104	763	17 851	52 074	51 430	28 920	22 541	645	1 040	9	8
	174 Masonry, stonework, tile setting, and plastering:											
	1741 Masonry, stone setting, and other stonework-----	66	307	5 124	16 777	(D)	10 012	5 978	(D)	*369	15	(D)
	1742 Plastering, drywall, and insulation work-----	43	571	16 352	55 138	43 628	30 115	(D)	11 509	255	10	12
	1743 Terrazzo, tile, marble, and mosaic work-----	7	56	1 058	4 383	4 341	2 549	(D)	42	(D)	(W)	(W)
	175 Carpentry and floor work:											
	1751 Carpentry-----	152	539	8 510	31 202	26 697	14 871	(D)	4 505	757	13	12
	1752 Floor laying and other floorwork-----	*21	46	960	3 467	3 333	1 957	*1 396	134	(D)	27	31
	1761 Roofing, siding, and sheet metal work-----	46	437	7 641	27 815	24 083	17 855	(D)	3 732	*902	11	8
	1771 Concrete work-----	34	172	3 209	12 157	11 585	7 940	(D)	572	252	18	24
	1781 Water well drilling-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	179 Miscellaneous special trade contractors:											
	1791 Structural steel erection-----	(S)	(D)	4 594	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	1793 Glass and glazing work-----	7	41	1 207	4 934	(D)	2 148	2 846	(D)	91	(W)	(D)
	1794 Excavation work-----	65	330	5 786	24 075	23 467	14 793	8 919	608	(D)	25	27
	1795 Wrecking and demolition work-----	5	*37	*855	2 988	2 913	2 732	181	75	-	44	33
	1796 Installing building equipment, n.e.c.-----	3	(D)	(D)	(D)	(D)	(S)	(S)	(D)	(D)	(D)	(D)
	1799 Special trade contractors, n.e.c.-----	44	843	17 729	58 661	52 558	43 127	11 058	6 104	(D)	4	4
6552	Land subdividers and developers, n.e.c.-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
15,16, 17	LOWELL, MA-NH PMSA											
	Construction Industries and land subdividers and developers-----	915	6 647	149 206	595 584	494 982	298 022	204 887	100 602	16 237	3	3
	Construction Industries:											
	Building construction—General contractors and operative builders:											
	152 General contractors, residential buildings:											
	1521 Single-family houses-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1522 Other residential buildings-----	24	154	3 149	19 459	12 936	*6 037	6 975	6 524	(S)	22	35
	1531 Operative builders-----	77	476	13 420	113 339	80 295	42 565	40 014	33 044	*2 357	14	14
	154 General contractors, nonresidential buildings:											
	1541 Industrial buildings and warehouses-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	1542 Nonresidential buildings, n.e.c.-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	16 Heavy construction other than building construction—contractors:											
	1611 Highway and street construction-----	15	196	7 159	17 342	16 697	10 530	(D)	645	764	2	1
	162 Heavy construction, except highway: 1622 Bridge, tunnel, and elevated highway construction-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1623	Water, sewer, and utility lines-----	11	254	7 607	25 773	24 557	17 192	(D)	1 216	2 124	(W)	(W)
1629	Heavy construction, n.e.c.-----	9	87	1 937	11 161	8 704	6 715	(D)	2 457	(D)	25	36

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	LOWELL, MA-NH PMSA—Con.											
	Construction Industries and land subdividers and developers—Con.											
15,16, 17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning -----	97	737	17 463	52 253	48 577	28 149	(D)	3 676	1 139	10	10
1721	Painting and paper hanging -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1731	Electrical work -----	97	1 041	24 702	72 382	71 787	42 467	29 631	595	973	6	7
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork -----	17	78	1 789	7 249	(D)	3 866	3 411	(D)	43	2	(D)
1761	Roofing, siding, and sheet metal work -----	50	378	6 209	19 532	18 168	11 520	6 648	1 364	*529	23	8
1771	Concrete work -----	51	482	10 133	37 450	(D)	22 972	12 254	(D)	(D)	11	(D)
1781	Water well drilling -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	3	(D)	227	(D)	(D)	(D)	(D)	(D)	55	(D)	(D)
1793	Glass and glazing work -----	6	32	653	1 986	1 964	932	1 151	22	*4	10	9
1794	Excavation work -----	20	99	2 296	13 512	12 134	8 662	(D)	1 378	*967	13	13
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	5	129	3 094	(D)	(D)	5 164	2 045	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	NASHUA, NH PMSA											
	Construction Industries and land subdividers and developers -----	686	6 352	142 506	652 837	476 400	284 599	202 927	176 437	13 524	3	4
	(See appropriate State for SIC detail.)											
	SALEM-GLOUCESTER, MA PMSA											
	Construction Industries and land subdividers and developers -----	807	5 595	129 904	542 762	397 896	240 157	169 882	144 866	11 464	3	3
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	184	837	15 672	92 930	65 064	30 242	36 465	27 866	1 969	10	15
1522	Other residential buildings -----	13	93	2 038	13 977	7 265	5 186	(D)	6 712	24	28	30
1531	Operative builders -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	13	258	6 542	28 881	16 437	9 243	8 244	12 444	(D)	12	5
1542	Nonresidential buildings, n.e.c. -----	45	654	17 145	96 556	41 338	26 481	(D)	55 218	1 277	13	11
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	5	69	1 335	5 195	(D)	3 727	(D)	(D)	555	(W)	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	27	192	6 275	24 378	(D)	14 892	3 721	(D)	817	21	(D)
1629	Heavy construction, n.e.c. -----	22	98	2 037	8 182	7 453	4 993	(D)	729	*497	20	14

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	SALEM-GLOUCESTER, MA PMSA—Con.											
15,18, 17 17	Construction Industries and land subdividers and developers—Con. Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	97	1 017	24 139	88 961	80 828	47 049	(D)	8 133	698	7	5
1721	Painting and paper hanging	42	216	3 011	8 287	7 068	6 172	1 180	*1 220	102	28	25
1731	Electrical work	72	377	8 132	22 268	21 903	15 023	(D)	366	63	12	12
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	28	165	4 184	12 612	(D)	8 040	3 309	(D)	*543	18	(D)
1742	Plastering, drywall, and insulation work	13	126	2 706	8 667	8 307	4 538	3 769	*359	437	13	11
1743	Terrazzo, tile, marble, and mosaic work	7	*31	(D)	*2 108	*1 671	*932	(D)	(S)	(D)	73	72
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork	*14	48	818	4 699	(D)	2 637	1 544	(D)	(D)	32	(D)
1761	Roofing, siding, and sheet metal work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1771	Concrete work	24	95	2 576	7 056	6 957	5 178	(D)	99	*274	23	22
1781	Water well drilling	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	4	37	680	1 852	1 745	1 352	(D)	107	(D)	(W)	(W)
1793	Glass and glazing work	7	139	5 896	12 685	(D)	6 292	(D)	(D)	(D)	(W)	(D)
1794	Excavation work	15	161	4 763	17 252	16 676	11 581	(D)	576	1 471	24	15
1795	Wrecking and demolition work	-	-	-	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c.	5	53	581	1 268	(D)	942	294	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(D)	(D)	(S)	(S)	(S)	(S)
	PROVIDENCE-PAWTUCKET- FALL RIVER, RI-MA CMSA											
	Construction Industries and land subdividers and developers	3 409	23 140	528 751	2 573 769	1 785 292	1 095 296	724 893	788 477	50 221	2	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	54	423	9 974	103 088	38 118	21 544	16 830	64 970	1 336	12	8
1531	Operative builders	181	924	21 411	181 176	105 717	42 230	64 085	75 460	2 007	15	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	52	1 034	28 289	276 246	97 934	44 279	55 528	178 312	2 464	10	5
1542	Nonresidential buildings, n.e.c.	141	2 204	63 380	500 716	205 096	114 495	(D)	295 620	3 629	5	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	56	922	24 421	120 365	96 944	74 097	(D)	23 421	6 843	7	6
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*7	87	3 039	16 094	12 271	7 264	(D)	*3 823	(D)	18	13
1623	Water, sewer, and utility lines	43	801	17 587	75 122	68 827	43 581	23 771	8 295	3 050	8	7
1629	Heavy construction, n.e.c.	45	537	14 739	64 374	47 065	32 720	15 511	17 309	932	9	7

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expendi- tures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	PROVIDENCE-PAWTUCKET- FALL RIVER, RI-MA CMSA— Con.											
15,16, 17	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	354	2 194	49 708	202 856	175 482	98 205	82 342	27 374	3 796	5	5
1721	Painting and paper hanging	221	810	14 553	37 942	36 109	28 969	7 207	1 833	1 246	9	6
1731	Electrical work	333	2 207	54 808	159 162	156 139	99 647	58 629	3 023	2 541	6	4
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	141	1 006	23 802	78 007	75 419	51 626	23 880	2 589	1 555	7	7
1742	Plastering, drywall, and insulation work	128	1 434	42 931	104 701	100 370	67 600	(D)	4 331	1 428	6	7
1743	Terrazzo, tile, marble, and mosaic work	30	107	2 424	8 103	7 954	4 790	(D)	*149	116	11	16
175	Carpentry and floor work:											
1751	Carpentry	309	1 235	22 204	98 228	86 350	54 470	34 303	11 879	2 066	8	11
1752	Floor laying and other floorwork	55	268	5 459	27 325	26 361	14 511	11 954	*964	*251	17	20
1761	Roofing, siding, and sheet metal work	172	1 082	21 117	68 990	64 942	38 671	(D)	*4 048	1 788	8	6
1771	Concrete work	138	923	18 435	55 282	52 815	40 381	(D)	2 467	2 155	7	8
1781	Water well drilling	14	67	1 635	6 740	(D)	4 538	2 186	(D)	467	1	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	17	166	4 358	19 877	(D)	18 538	(D)	(D)	197	11	(D)
1793	Glass and glazing work	23	251	5 179	18 527	18 107	9 704	8 824	420	409	4	2
1794	Excavation work	116	597	14 183	56 361	53 057	43 986	11 971	3 304	6 686	9	9
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c.	13	133	4 253	15 604	15 038	10 089	(D)	566	(D)	16	13
1799	Special trade contractors, n.e.c.	178	986	17 827	64 163	61 702	38 462	25 275	2 461	882	13	25
6552	Land subdividers and developers, n.e.c.	46	*253	*4 726	21 532	*11 815	*9 032	4 174	9 718	439	50	42
	FALL RIVER, MA-RI PMSA											
	Construction industries and land subdividers and developers	396	2 617	45 550	178 233	149 824	95 861	59 184	28 409	5 327	7	5
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	82	526	5 797	28 112	21 884	14 581	9 825	6 228	856	34	24
1522	Other residential buildings	*7	*52	*858	*5 684	*2 940	*2 218	(D)	*2 743	(D)	46	50
1531	Operative builders	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	15	144	4 224	16 453	8 553	5 211	(D)	7 900	115	17	14
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	6	105	2 637	11 110	(D)	6 456	3 286	(D)	*909	38	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	—	—	—	—	—	—	—	—	—	—	—
1623	Water, sewer, and utility lines	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1629	Heavy construction, n.e.c.	4	(D)	(D)	1 078	(D)	846	433	(D)	—	(D)	(D)

Table 12. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	FALL RIVER, MA-RI PMSA—Con.											
	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
15,16, 17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	38	213	4 940	18 255	17 067	8 859	9 238	1 189	*282	6	11
1721	Painting and paper hanging-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1731	Electrical work-----	39	293	5 470	18 608	(D)	11 404	6 745	(D)	412	17	(D)
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	17	39	436	2 026	1 941	1 186	755	*85	*57	19	15
1742	Plastering, drywall, and insulation work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work-----	-	-	-	-	-	-	-	-	-	-	-
175	Carpentry and floor work:											
1751	Carpentry-----	46	150	2 303	8 375	7 054	4 337	3 079	1 321	(S)	28	24
1752	Floor laying and other floorwork-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work-----	21	123	1 555	7 562	7 032	4 651	(D)	*531	282	12	22
1771	Concrete work-----	12	259	4 210	9 173	8 986	8 139	(D)	187	363	3	5
1781	Water well drilling-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1793	Glass and glazing work-----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work-----	11	37	731	2 030	1 964	1 385	587	66	*77	12	19
1795	Wrecking and demolition work-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.-----	4	10	292	2 022	(D)	1 153	650	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c.-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c.-----	(S)	(S)	*478	*1 858	(D)	(D)	*821	(D)	*48	(S)	(D)
	PAWTUCKET-WOONSOCKET- ATTLEBORO, RI-MA PMSA											
	Construction industries and land subdividers and developers-----	996	6 370	141 829	678 548	524 205	332 992	199 847	154 343	13 581	3	3
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings-----	*16	147	3 377	40 883	(D)	12 873	(D)	(D)	(D)	4	(D)
1531	Operative builders-----	74	336	6 929	59 272	39 849	15 592	24 746	19 424	*645	25	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	11	161	3 668	22 824	13 524	7 026	(D)	9 299	419	22	10
1542	Nonresidential buildings, n.e.c.-----	47	510	13 201	90 610	47 513	31 289	(D)	43 097	869	8	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	15	392	10 556	51 062	(D)	26 371	10 692	(D)	1 344	1	(D)
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	9	136	3 325	15 331	13 841	10 645	(D)	*1 490	683	11	5
1629	Heavy construction, n.e.c.-----	14	(D)	(D)	33 284	(D)	14 867	7 991	(D)	731	(D)	(D)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	PAWTUCKET-WOONSOCKET- ATTLEBORO, RI-MA PMSA— Con.											
	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
15,16, 17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	109	527	10 600	42 753	40 290	24 184	16 704	2 463	*808	13	13
1721	Painting and paper hanging	65	220	4 200	11 614	10 889	8 399	(D)	725	*390	20	12
1731	Electrical work	92	351	7 269	22 058	(D)	12 826	8 718	(D)	746	19	(D)
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	28	488	14 659	(D)	44 088	30 883	(D)	(D)	833	6	3
1742	Plastering, drywall, and insulation work	45	362	(D)	(D)	(D)	(D)	(D)	(D)	(D)	19	(D)
1743	Terrazzo, tile, marble, and mosaic work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	82	437	8 575	44 999	40 736	24 372	16 760	4 263	592	9	15
1752	Floor laying and other floorwork	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	73	412	8 582	31 357	28 562	15 616	(D)	*2 795	737	13	9
1771	Concrete work	51	201	3 732	12 196	11 096	7 660	3 505	1 099	361	14	16
1781	Water well drilling	8	(D)	(D)	5 956	(D)	4 096	1 844	(D)	441	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	5	(D)	(D)	(D)	(D)	(D)	633	(D)	122	(D)	(D)
1793	Glass and glazing work	6	(D)	(D)	(D)	(D)	3 710	(D)	(D)	(D)	(D)	(D)
1794	Excavation work	29	176	4 599	20 364	18 886	16 083	(D)	1 477	1 392	13	7
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	44	269	4 565	15 644	14 344	10 572	5 220	*1 300	220	23	19
6552	Land subdividers and developers, n.e.c.	10	32	899	8 474	(D)	(D)	*929	(D)	(D)	29	(D)
	PROVIDENCE, RI PMSA											
	Construction industries and land subdividers and developers	2 017	14 153	341 372	1 716 988	1 111 263	666 442	465 863	605 726	31 313	2	2
	(See appropriate State for SIC detail.)											
	SPRINGFIELD, MA MSA											
	Construction industries and land subdividers and developers	1 355	10 425	245 668	1 122 689	797 271	475 275	345 725	325 418	18 836	3	3
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	224	1 141	18 458	118 931	87 315	50 423	41 318	*31 617	*3 719	13	21
1522	Other residential buildings	33	268	6 834	54 330	25 171	16 575	9 877	29 159	(D)	19	17
1531	Operative builders	61	238	8 567	73 955	38 384	*11 662	(D)	35 571	840	23	22
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	6	516	12 425	129 035	(D)	10 350	19 921	(D)	(S)	6	(D)
1542	Nonresidential buildings, n.e.c.	52	693	20 061	119 258	48 940	24 423	26 184	70 319	1 048	8	10
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	20	283	8 726	38 795	36 976	19 359	17 977	1 819	944	5	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	7	87	2 671	13 102	11 816	7 921	(D)	1 286	(D)	(W)	(W)
1629	Heavy construction, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
											B	E
A			B	C	D	E	F	G	H	I		
	SPRINGFIELD, MA MSA—Con.											
	Construction industries and land subdividers and developers—Con.											
15,16, 17	Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning.....	165	1 329	35 905	125 264	110 037	70 651	41 981	15 227	1 606	5	5
1721	Painting and paper hanging.....	80	375	8 610	22 354	21 726	17 943	4 564	628	348	13	23
1731	Electrical work	120	1 024	28 815	80 773	79 449	49 561	(D)	1 324	1 818	5	6
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	54	514	11 916	32 422	31 810	21 285	10 525	612	564	18	10
1742	Plastering, drywall, and insulation work	64	676	16 546	46 747	44 769	27 583	17 266	1 978	354	5	5
1743	Terrazzo, tile, marble, and mosaic work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry	121	463	7 355	32 776	27 573	15 573	12 213	*5 203	334	11	14
1752	Floor laying and other floorwork.....	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	68	706	13 730	65 090	54 087	29 193	25 218	11 003	738	28	15
1771	Concrete work	76	623	13 317	44 358	37 568	21 438	17 590	6 791	2 049	13	11
1781	Water well drilling	3	(D)	(D)	(D)	(D)	(D)	687	(D)	213	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	8	127	3 248	11 227	(D)	7 194	2 982	(D)	450	(W)	(D)
1793	Glass and glazing work	5	63	2 381	(D)	(D)	(D)	3 352	(D)	(D)	(W)	(D)
1794	Excavation work	54	386	7 467	31 984	28 488	25 209	6 978	3 496	*1 288	14	9
1795	Wrecking and demolition work	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	5	103	3 350	15 107	(D)	10 585	3 424	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c.	69	380	5 847	24 223	23 145	13 576	10 575	1 077	*341	20	17
6552	Land subdividers and developers, n.e.c.	8	65	1 319	5 466	3 823	2 976	1 321	1 643	67	16	33

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New Hampshire

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for New Hampshire. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 17,600 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$4.6 billion in total value of business done.

Most of the 17,600 construction establishments were small. Of the total, 12,263 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,139 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 69 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$3.7 billion on total dollar value of business done. Of this amount, \$3.5 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$873 million, leaving net value of construction work of \$2.7 billion. In addition, these establishments paid out \$1.3 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.6 billion. (See Introduction and appendixes for explanation of terms.)

There were 5,337 establishments with total employment averaging 37,889 during the year. Total payroll for 1987 was \$783 million. Total hours worked by construction workers during the year were 50.9 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 12,263 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$911 million. Most of these establishments, about 73 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

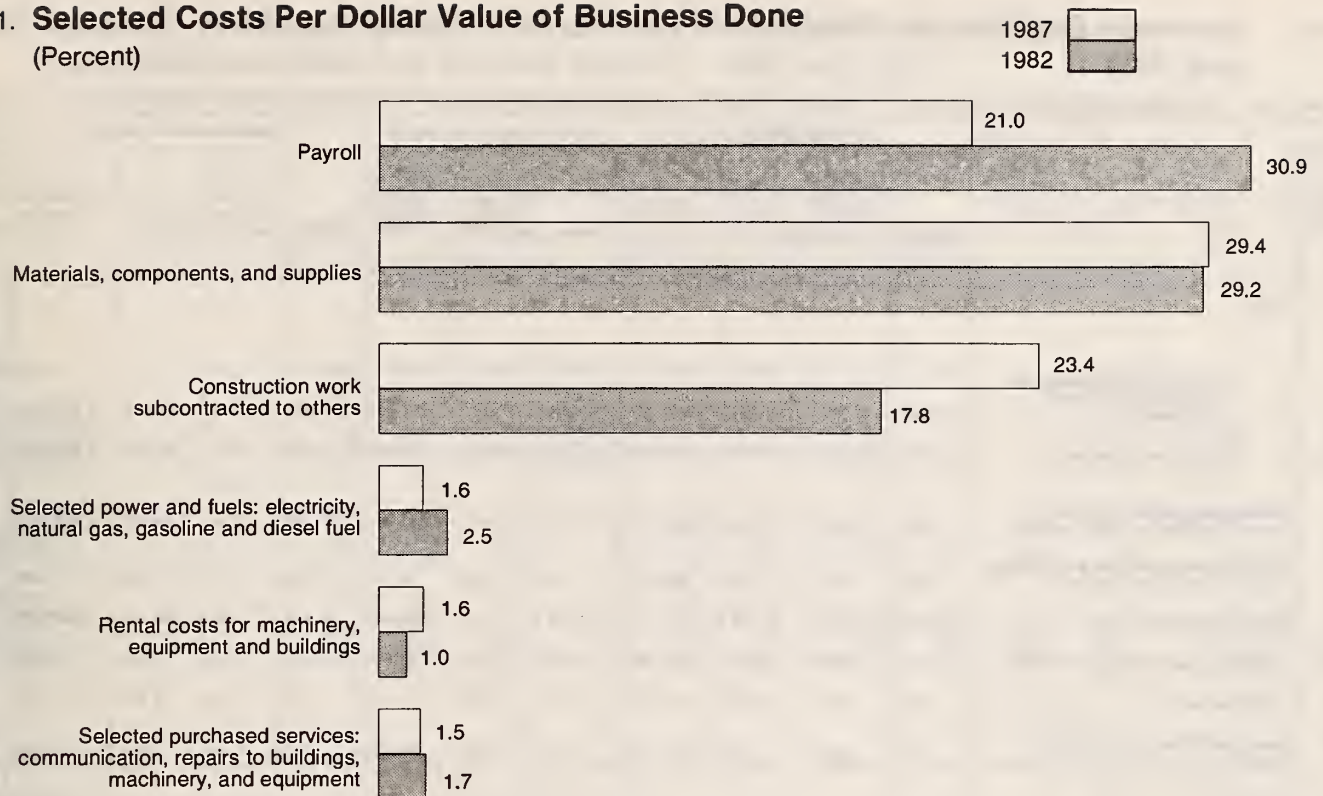


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

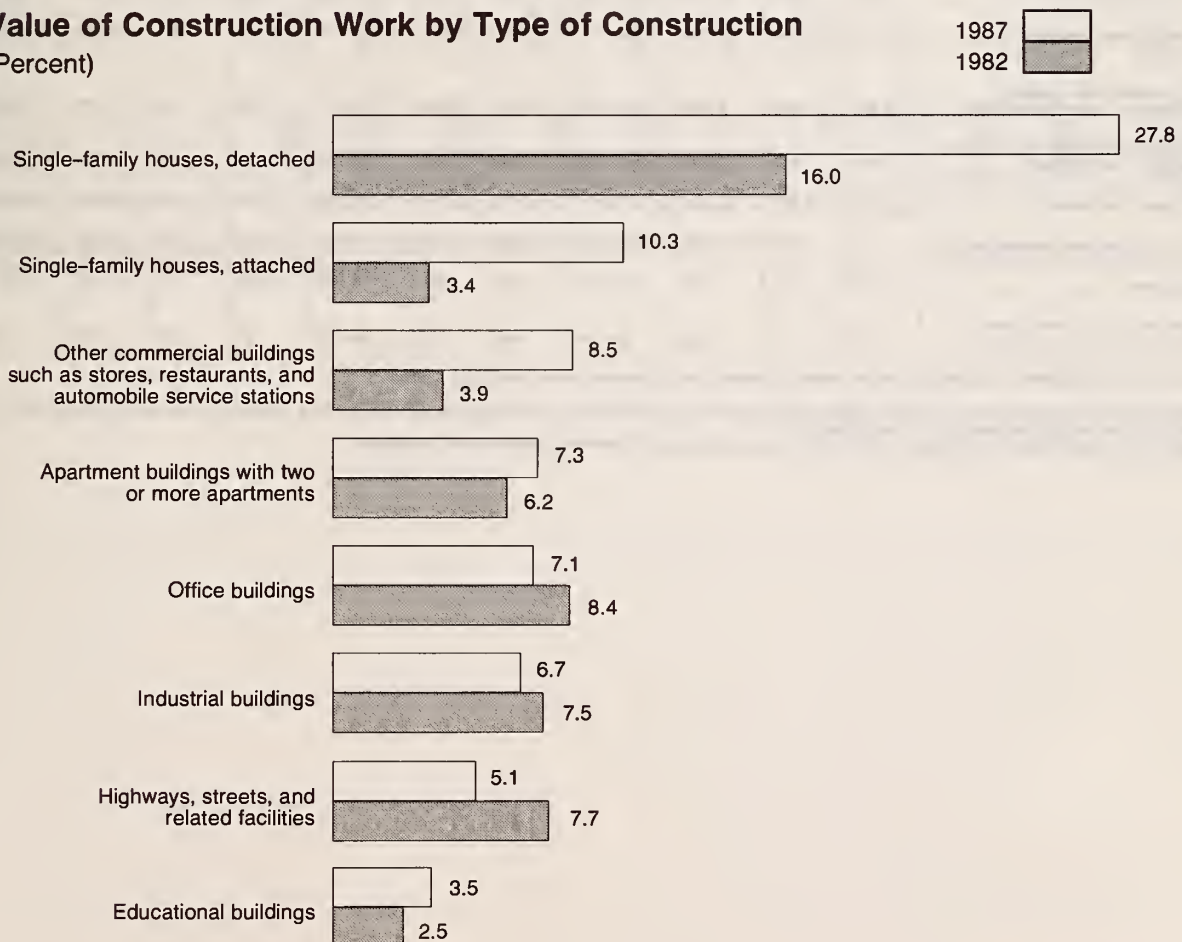


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
15, 16, 17	1987													
	Construction industries and land subdividers and developers -----	17 600	13 723	37 889	4 643 307	12 263	12 146	911 273	5 337	1 577	37 889	3 732 034	1	2
	Construction industries -----	16 993	13 227	37 576	4 419 652	11 745	11 668	729 033	5 248	1 559	37 576	3 690 519	1	2
	Building construction—General contractors and operative builders ----	4 390	2 850	14 068	2 250 374	2 555	2 389	341 761	1 835	461	14 068	1 908 613	2	4
	Heavy construction other than building construction— contractors -----	487	213	4 492	468 167	178	176	14 131	289	37	4 492	454 036	3	3
	Special trade contractors -----	12 136	10 164	19 016	1 701 011	9 012	9 103	373 141	3 124	1 061	19 016	1 327 870	2	2
	Plumbing, heating, and air-conditioning --	1 165	829	3 796	352 083	643	642	35 615	522	187	3 796	316 468	4	4
	Electrical work -----	1 021	745	2 609	189 867	603	599	22 717	418	146	2 609	167 150	4	4
	Land subdividers and developers, n.e.c.² -----	594	490	301	223 743	518	478	182 240	76	12	301	41 503	26	34
	1982													
15, 16, 17	Construction industries and land subdividers and developers -----	8 433	6 819	23 234	1 546 638	5 740	5 726	201 456	2 693	1 093	23 234	1 345 182	2	2
	Construction industries -----	8 280	6 733	23 125	1 520 461	5 621	5 644	181 547	2 659	1 089	23 125	1 338 914	2	2
	Building construction—General contractors and operative builders ----	2 027	1 552	4 960	498 530	1 265	1 256	66 971	762	296	4 960	431 559	4	4
	Heavy construction other than building construction— contractors -----	413	308	7 885	418 120	269	273	13 710	144	35	7 885	404 410	1	1
	Special trade contractors -----	5 840	4 873	10 280	603 811	4 087	4 115	100 866	1 753	758	10 280	502 945	4	3
	Plumbing, heating, and air-conditioning --	681	504	1 582	120 163	410	414	13 625	271	90	1 582	106 538	8	6
	Electrical work -----	694	501	2 177	136 034	425	421	9 905	269	80	2 177	126 129	4	3
	Land subdividers and developers, n.e.c.² -----	148	85	*105	26 174	119	82	19 909	27	(S)	*105	6 265	44	36

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. **Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	17 600	13 723	37 889	4 643 307	12 263	12 146	911 273	5 337	1 577	37 889	3 732 034	1	2
\$10,000,000 or more -----	39	—	5 107	831 082	—	—	—	39	—	5 107	831 082	(W)	(W)
\$5,000,000 to \$9,999,999 -----	85	2	3 501	598 752	8	2	55 743	77	—	3 501	543 009	3	11
\$2,500,000 to \$4,999,999 -----	169	14	4 001	578 315	24	6	83 116	145	*8	4 001	495 199	3	7
\$1,000,000 to \$2,499,999 -----	558	83	7 873	846 903	67	51	97 741	491	32	7 873	749 162	4	5
\$500,000 to \$999,999 -----	760	338	5 449	527 852	155	147	106 629	605	191	5 449	421 223	5	6
\$250,000 to \$499,999 -----	1 389	665	5 357	496 055	366	329	128 950	1 023	336	5 357	367 105	6	6
\$100,000 to \$249,999 -----	(S)	(S)	(S)	(S)	1 212	1 189	185 630	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	1 593	1 605	111 687	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	2 203	2 219	79 218	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000 -----	(S)	(S)	(S)	(S)	6 635	6 598	62 559	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	2 770	2 774	46 323	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	1 442	1 422	10 452	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	1 062	1 054	3 960	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	1 361	1 348	1 824	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	8 433	6 819	23 234	1 546 638	5 740	5 726	201 456	2 693	1 093	23 234	1 345 182	2	2
\$10,000,000 or more -----	11	—	7 819	443 548	—	—	—	11	—	7 819	443 548	(W)	(W)
\$5,000,000 to \$9,999,999 -----	20	—	1 276	(D)	—	—	—	20	—	1 276	(D)	(W)	(D)
\$2,500,000 to \$4,999,999 -----	51	—	2 294	(D)	2	—	(D)	49	—	2 294	(D)	(W)	(D)
\$1,000,000 to \$2,499,999 -----	122	17	2 255	499 038	13	13	27 491	109	4	2 255	471 547	6	3
\$500,000 to \$999,999 -----	207	18	2 187	145 039	13	10	8 603	194	*8	2 187	136 436	8	10
\$250,000 to \$499,999 -----	401	125	2 318	139 558	51	42	18 047	350	83	2 318	121 511	10	8
\$100,000 to \$249,999 -----	1 020	644	2 993	155 731	275	268	39 738	745	376	2 993	115 993	9	7
\$50,000 to \$99,999 -----	1 071	837	1 137	76 672	550	558	37 977	521	279	1 137	38 695	9	8
\$25,000 to \$49,999 -----	1 388	1 247	565	49 621	1 030	1 044	36 243	358	203	565	13 378	10	11
Less than \$25,000 -----	4 141	3 930	389	37 430	3 806	3 791	33 357	335	139	389	4 073	8	11
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	1 509	1 515	23 792	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	977	969	6 694	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	821	812	2 372	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	499	495	499	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction Industries and land subdividers and developers -----	5 337	37 889	29 889	782 587	554 077	50 929	3 547 066	2 673 614
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 138	5 936	4 853	100 242	73 497	7 759	478 134	356 064
1522	Other residential buildings -----	113	1 232	991	24 596	16 920	1 730	143 207	84 274
1531	Operative builders -----	372	2 843	1 683	64 501	28 950	2 965	540 503	338 382
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	33	764	564	20 235	12 884	957	141 536	(D)
1542	Nonresidential buildings, n.e.c. -----	179	3 293	2 486	79 522	51 974	4 079	498 313	231 347
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	99	2 222	1 842	57 623	42 668	3 946	211 118	188 376
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	5	130	106	3 320	2 388	182	15 740	14 034
1623	Water, sewer, and utility lines -----	57	776	659	19 075	15 508	1 304	64 422	60 227
1629	Heavy construction, n.e.c. -----	128	1 364	1 105	29 837	22 493	2 001	123 510	108 781
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	522	3 796	2 950	87 759	63 235	5 352	309 159	278 792
1721	Painting and paper hanging -----	244	1 155	991	16 575	13 909	1 440	42 409	41 654
1731	Electrical work -----	418	2 609	2 021	53 518	40 884	3 978	166 088	164 536
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	205	1 015	890	16 166	14 236	1 279	50 120	48 716
1742	Plastering, drywall, and insulation work -----	176	2 179	1 851	47 806	34 144	2 399	167 717	138 527
1743	Terrazzo, tile, marble, and mosaic work -----	22	124	104	2 070	1 759	129	8 474	8 177
175	Carpentry and floor work:								
1751	Carpentry -----	555	1 916	1 607	29 323	23 741	2 219	100 491	87 284
1752	Floor laying and other floor work -----	53	166	135	2 960	2 194	298	10 852	10 064
1761	Roofing, siding, and sheet metal work -----	154	1 145	927	24 579	18 124	1 772	79 974	73 509
1771	Concrete work -----	217	1 485	1 266	25 946	20 129	2 151	90 859	87 317
1781	Water well drilling -----	43	179	127	5 133	3 338	258	18 609	18 262
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	24	357	308	6 909	5 311	530	20 045	18 744
1793	Glass and glazing work -----	10	154	110	3 557	2 398	199	12 531	12 464
1794	Excavation work -----	298	1 565	1 260	32 117	23 307	2 056	143 366	133 575
1795	Wrecking and demolition work -----	*16	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	11	162	117	6 040	4 619	245	16 844	(D)
1799	Special trade contractors, n.e.c. -----	156	918	726	15 703	12 396	1 210	59 667	58 002
6552	Land subdividers and developers, n.e.c. -----	76	301	*128	6 132	2 131	*349	26 555	14 565

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††	B	H	M	
I	J	K	L	M	N	O	P	Q				
1 608 817	1 156 846	873 452	58 379	90 998	573 305	23 234	1 306 758	672 103	1	2	4	15, 16, 17
												15
196 197 50 741	166 209 36 124	122 069 58 933	5 521 921	9 241 3 770	48 655 10 652	1 951 377	124 668 29 342	48 422 10 323	4 10	5 7	10 33	152 1521 1522
184 272	160 960	202 120	3 131	7 746	67 388	424	46 344	11 646	7	9	8	1531
33 391 141 497	(D) 98 442	(D) 266 966	409 5 793	(D) 4 535	(D) 32 587	422 1 786	35 993 182 685	11 177 47 776	4 3	(D) 3	(D) 8	154 1541 1542
												16
115 444	107 784	22 741	13 204	14 352	108 002	1 386	118 587	68 279	4	4	6	1611
8 174 40 062 73 299	(D) (D) 39 218	1 705 4 195 14 729	(D) 3 293 6 134	(D) (D) 6 657	6 498 27 672 39 201	156 369 5 974	17 894 15 914 240 536	6 801 10 743 184 349	14 9 7	13 10 6	(D) (D) 11	162 1622 1623 1629
												17
158 470	127 631	30 366	4 628	5 741	30 318	1 582	102 623	46 856	4	4	15	1711
33 941	(D)	754	237	683	4 007	693	21 077	15 240	9	13	26	1721
93 314	72 284	1 551	1 611	4 614	20 819	2 177	124 303	67 442	4	4	12	1731
32 393 85 716 4 794	16 332 53 845 3 428	1 404 29 190 297	1 022 1 362 29	1 267 1 996 44	5 735 6 515 365	(S) 1 187 73	(S) 47 878 2 922	(S) 26 721 1 318	10 9 15	9 7 11	21 20 21	174 1741 1742 1743
54 041 5 576	34 153 5 173	13 206 *787	698 *252	2 805 *261	11 431 732	1 037 74	31 230 3 529	16 114 1 946	6 19	7 31	19 74	175 1751 1752
44 879	(D)	6 464	1 109	2 358	16 712	633	31 547	15 546	9	8	17	1761
52 940	34 631	3 542	991	3 473	18 985	429	17 162	10 728	7	7	19	1771
12 641	5 845	*346	*421	2 184	16 988	99	6 084	3 331	9	11	30	1781
15 766 6 117 102 587 (S) 10 525 35 242	3 284 7 505 34 012 (S) 5 259 25 377	1 301 67 9 790 (S) (D) 1 664	1 186 163 4 512 (S) 117 848	971 284 9 626 (S) (D) 1 195	*9 986 439 59 674 (S) (D) 7 770	(S) (S) 1 028 (D) 171 (D)	(S) (S) 46 815 (D) 12 009 19 721	(S) (S) 31 630 (D) 8 674 (D)	12 9 11 (S) 14 16	19 13 14 (S) (D) 25	32 39 26 (S) (D) 27	179 1791 1793 1794 1795 1796 1799
10 739	5 576	*11 989	*171	264	5 759	*105	3 615	*3 000	26	18	28	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	5 337	2 693	3 000	2 924	1	3	5	5
Proprietors and working partners	1 577	1 093	1 795	1 830	6	6	8	7
All employees**	37 889	23 234	17 548	18 631	1	2	3	4
Construction workers:								
March	26 487	15 669	11 481	12 118	2	2	3	4
May	30 487	19 592	15 552	16 053	1	2	3	5
August	33 082	21 493	17 465	18 480	1	2	3	4
November	29 500	19 381	16 311	16 670	1	2	4	4
Average	29 889	19 318	15 220	16 204	1	2	3	4
Other employees:								
March	7 806	3 889	2 176	2 267	3	3	4	4
May	7 900	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	8 283	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	8 012	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	8 000	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	10 657	6 990	(NA)	(NA)	2	2	(NA)	(NA)
April to June	12 962	8 618	(NA)	(NA)	2	2	(NA)	(NA)
July to September	14 371	9 982	(NA)	(NA)	2	2	(NA)	(NA)
October to December	12 938	8 928	(NA)	(NA)	2	2	(NA)	(NA)
Total hours worked	50 929	34 520	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	782 587	415 353	174 003	147 260	1	1	3	3
Payroll, construction workers	554 077	331 372	141 663	117 904	1	1	3	3
Payroll, other employees	228 509	83 981	32 340	29 356	2	2	3	3
First quarter payroll, all employees	161 801	82 482	31 338	(NA)	2	1	3	(NA)
Employer costs for fringe benefits, all employees	146 102	81 105	27 674	(NA)	2	1	3	(NA)
Legally required expenditures	109 439	52 681	19 936	(NA)	2	2	3	(NA)
Voluntary expenditures	36 662	28 423	7 738	(NA)	2	1	2	(NA)
Dollar value of business done	3 732 034	1 345 182	810 821	603 315	2	2	3	3
Value of construction work ¹	3 547 066	1 306 758	775 529	584 606	2	2	3	3
Value of construction work subcontracted in from others	914 639	268 889	166 369	94 624	3	4	3	6
Land receipts ²	92 918	6 853	(NA)	(NA)	14	15	(NA)	(NA)
Other business receipts	92 048	31 570	35 292	18 709	3	5	13	12
Net value of construction†	2 673 614	1 067 783	604 260	453 886	2	2	3	3
Value added††	1 608 817	672 103	330 329	271 747	2	1	3	3
Selected costs	2 030 298	666 225	461 188	325 682	2	2	3	3
Materials, components, and supplies ³	1 095 647	392 959	273 876	194 962	2	2	3	4
Construction work subcontracted to others	873 452	238 975	171 269	130 720	4	3	7	3
Selected power, fuels, and lubricants	61 198	34 290	16 043	(NA)	2	2	4	(NA)
Electricity	8 072	5 094	1 944	(NA)	3	3	5	(NA)
Natural gas	1 239	833	500	(NA)	7	17	18	(NA)
Gasoline and diesel fuel	43 992	25 786	11 726	(NA)	2	2	5	(NA)
On highway use	32 428	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	11 564	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	7 894	2 577	1 872	(NA)	2	5	10	(NA)
Rental cost for machinery, equipment, and buildings	58 379	13 918	13 751	(NA)	3	3	4	(NA)
For machinery and equipment	44 800	10 292	11 965	8 415	4	4	3	4
For buildings	13 578	3 625	1 786	(NA)	4	6	8	(NA)
Selected purchased services	54 830	22 317	24 658	(NA)	3	4	26	(NA)
Communication services	13 406	6 484	*10 292	(NA)	3	7	61	(NA)
Repairs to buildings and other structures	4 155	1 408	1 469	(NA)	6	10	26	(NA)
Repairs to machinery and equipment	37 268	14 424	12 898	(NA)	4	4	4	(NA)
Ownership of construction projects:								
Value of construction work	3 547 066	1 306 758	775 529	584 606	2	2	3	3
Government owned	394 625	208 992	155 598	155 049	5	7	4	3
Federal	104 290	(NA)	(NA)	(NA)	13	(NA)	(NA)	(NA)
State and local	290 335	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Privately owned	3 152 441	1 097 766	619 931	429 557	2	2	3	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	507 928	263 303	3	3
Capital expenditures, other than land -----	90 998	19 527	4	5
New -----	75 026	14 119	4	7
Used -----	15 972	5 407	9	6
Retirements and disposition of depreciable assets -----	25 621	5 473	19	5
End-of-year gross book value of depreciable assets -----	573 305	277 357	3	3
Depreciation charges during year -----	69 439	33 037	4	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	80 324	47 707	6	5
Capital expenditures, other than land -----	15 847	2 275	9	10
New buildings and other structures -----	13 540	1 761	10	10
Used buildings and other structures -----	2 306	514	16	19
Retirements and disposition of depreciable assets -----	1 812	592	16	9
End-of-year gross book value of depreciable assets -----	94 359	49 391	5	5
Depreciation charges during year -----	6 396	4 629	6	7
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	427 604	215 596	4	3
Capital expenditures, other than land -----	75 151	17 251	4	6
New machinery and equipment, including automobiles and trucks -----	61 485	12 358	4	8
New automobiles and trucks, intended primarily for highway use -----	30 230	4 986	5	9
Used machinery and equipment, including automobiles and trucks -----	13 665	4 893	11	6
Retirements and disposition of depreciable assets -----	23 809	4 881	21	5
End-of-year gross book value of depreciable assets -----	478 946	227 966	3	3
Depreciation charges during year -----	63 042	28 408	4	4

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	5 337	1
Value of construction work	3 547 066	2
Establishments with inventories:		
Number	1 948	4
Value of construction work	1 891 156	3
Inventories¹:		
End of 1987, materials and supplies	57 844	5
End of 1986, materials and supplies	46 883	9
Establishments with no inventories:		
Number	2 502	4
Value of construction work	1 068 290	4
Establishments not reporting:		
Number	887	8
Value of construction work	587 620	6

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments	5 337	(S)	1 224	559	272	54	27	1	2	—	
All employees**	37 889	(S)	7 649	7 462	7 866	3 456	3 614	1 508	(D)	—	
Payroll, all employees	782 587	(S)	134 985	153 515	179 043	89 890	90 414	39 579	(D)	—	
Construction worker hours (thousands)	50 929	(S)	9 501	9 974	10 755	4 803	5 064	2 478	(D)	—	
Dollar value business done	3 732 034	(S)	690 327	657 399	783 544	390 337	452 292	217 319	(D)	—	
Value of construction work ¹	3 547 066	(S)	654 457	625 314	739 591	381 237	626 468	(D)	(D)	—	
Net value of construction work†	2 673 614	(S)	519 123	499 244	559 129	268 548	276 057	122 763	(D)	—	
Value added††	1 608 817	(S)	314 792	304 468	330 999	166 834	232 550	(D)	(D)	—	
Cost of materials, components, supplies, and fuels	1 156 846	(S)	215 730	206 302	244 516	108 218	109 783	96 394	(D)	—	
Cost of construction work subcontracted to others	873 452	(S)	135 333	126 070	180 461	112 689	227 647	(D)	(D)	—	
Rental cost for machinery, equipment, and buildings	58 379	(S)	7 562	10 137	15 314	6 593	12 250	(D)	(D)	—	
Capital expenditures, other than land	90 998	(S)	11 850	21 494	19 562	6 739	7 269	9 002	(D)	—	
End-of-year gross book value of depreciable assets	573 305	(S)	89 855	126 720	104 353	58 881	31 426	67 483	(D)	—	
1982											
All employees**	23 234	3 725	3 099	2 856	3 276	1 776	1 391	896	6 214	(D)	
Value of construction work ¹	1 306 758	185 592	157 931	159 942	218 736	137 837	101 148	103 135	242 436	(D)	
Value added††	672 103	88 605	78 630	73 199	99 262	56 051	44 852	231 503	(D)	(D)	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	5	5	3	(W)	4	(W)	(D)	—	
Net value of construction work†	2	(S)	6	6	3	(W)	1	(W)	(D)	—	
Capital expenditures, other than land	4	(S)	13	13	5	2	(W)	(W)	(D)	—	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	5 337	(S)	(S)	(S)	(S)	1 023	605	491	145	77	39
All employees**	37 889	(S)	(S)	(S)	(S)	5 357	5 449	7 873	4 001	3 501	5 107
Payroll, all employees	782 587	(S)	(S)	(S)	(S)	90 980	105 789	168 823	102 497	91 392	142 639
Construction worker hours (thousands)	50 929	(S)	(S)	(S)	(S)	6 899	7 198	10 251	5 910	4 633	7 664
Dollar value of business done	3 732 034	(S)	(S)	(S)	(S)	367 105	421 223	749 162	495 199	543 009	831 082
Value of construction work ¹	3 547 066	(S)	(S)	(S)	(S)	357 530	405 550	713 425	465 541	498 981	786 826
Net value of construction work†	2 673 614	(S)	(S)	(S)	(S)	312 586	338 990	580 397	353 209	325 588	469 461
Value added††	1 608 817	(S)	(S)	(S)	(S)	186 824	212 428	353 886	219 688	189 714	270 526
Cost of materials, components, supplies, and fuels	1 156 846	(S)	(S)	(S)	(S)	131 997	134 267	246 762	143 307	144 507	235 992
Cost of construction work subcontracted to others	873 452	(S)	(S)	(S)	(S)	44 944	66 559	133 027	112 331	173 393	317 365
Rental cost for machinery, equipment, and buildings	58 379	(S)	(S)	(S)	(S)	5 373	6 453	12 414	9 797	6 555	14 195
Capital expenditures, other than land	90 998	(S)	(S)	(S)	(S)	10 759	8 613	25 092	11 820	8 228	16 774
End-of-year gross book value of depreciable assets	573 305	(S)	(S)	(S)	(S)	69 845	64 548	135 759	75 964	57 070	113 528
1982											
All employees**	23 234	389	565	1 137	2 993	2 318	2 187	2 255	2 294	1 276	7 819
Value of construction work ¹	1 306 758	3 963	13 190	37 821	113 475	118 635	129 148	162 260	163 194	132 104	432 965
Value added††	672 103	2 036	7 179	20 350	63 049	60 592	58 844	76 445	70 970	45 157	267 477
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	(S)	(S)	(S)	(S)	6	5	4	3	3	(W)
Net value of construction work†	2	(S)	(S)	(S)	(S)	6	6	5	5	6	(W)
Capital expenditures, other than land	4	(S)	(S)	(S)	(S)	15	15	11	7	2	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	3 547 066	2 550 131	540 937	248 532	2	2	3	4
Building construction	2 859 570	2 187 747	474 811	174 811	2	3	3	4
Single-family houses	1 349 553	1 110 225	159 636	79 691	4	5	6	7
Single-family houses, detached	985 560	762 642	150 355	72 561	4	5	7	7
Single-family houses, attached	363 992	347 582	9 280	7 129	12	13	10	17
Apartment buildings with two or more apartments	258 498	220 413	21 622	16 463	5	5	17	11
Other residential buildings, including hotels and motels	131 429	90 897	32 728	7 803	8	8	17	23
Hotels and motels	55 670	44 063	8 684	2 922	8	9	16	13
Other residential buildings, excluding hotels and motels	75 759	46 834	24 044	4 880	10	9	22	35
Office buildings	252 415	176 035	63 900	12 480	3	3	5	10
Other commercial buildings such as stores, restaurants, and automobile service stations	302 376	223 242	62 415	16 718	3	3	9	13
Industrial buildings and warehouses	275 516	211 852	42 257	21 406	2	2	3	7
Industrial buildings	239 394	183 492	36 969	18 933	2	3	4	7
Warehouses	36 121	28 360	5 288	2 473	4	4	6	18
Religious buildings	17 229	9 943	4 301	2 984	7	7	9	32
Educational buildings	125 504	71 991	48 012	5 500	4	5	8	7
Hospitals and institutional buildings	67 797	34 897	28 064	4 835	5	9	4	7
Amusement, social, and recreational buildings	27 047	22 053	1 855	3 138	2	1	25	4
Other nonresidential buildings	30 006	16 199	10 021	3 793	11	12	15	3
Land development for buildings	*22 200	(NA)	(NA)	(NA)	46	(NA)	(NA)	(NA)
Nonbuilding construction	502 232	362 384	66 126	73 721	3	3	6	7
Highways, streets, and related facilities	180 080	123 998	17 148	38 933	5	5	12	8
Bridges and elevated highways	21 049	7 376	9 900	*3 772	13	10	7	45
Power and communication transmission lines, towers, and related facilities	19 478	12 158	4 747	2 572	7	7	5	13
Sewers, water mains, and related facilities	82 851	67 060	10 000	5 790	9	9	18	38
Sewers, sewer lines, and related facilities	59 301	49 033	7 137	3 129	11	11	23	34
Water mains and related facilities	23 550	18 026	2 863	*2 660	10	8	11	45
Heavy industrial facilities	26 407	17 133	2 749	6 524	1	(W)	7	(W)
Sewage treatment and water treatment plants	36 664	30 020	6 156	487	10	10	9	5
Earthmoving, nonbuilding	47 815	44 743	991	2 080	6	5	26	31
Other nonbuilding construction	147 189	108 930	21 572	16 693	17	19	26	36
Construction work, n.s.k.	185 264	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	1 306 758	1 065 928	(NA)	240 830	2	2	(NA)	3
Building construction	740 999	589 811	(NA)	151 187	2	2	(NA)	4
Single-family houses	253 207	202 435	(NA)	50 771	6	7	(NA)	9
Single-family houses, detached	208 691	161 136	(NA)	47 554	7	6	(NA)	9
Single-family houses, attached	44 516	41 299	(NA)	3 216	10	8	(NA)	14
Apartment buildings with two or more apartments	80 874	70 212	(NA)	10 662	6	6	(NA)	13
Other residential buildings, including hotels and motels	14 428	9 382	(NA)	5 045	7	11	(NA)	9
Office buildings	109 341	89 961	(NA)	19 379	2	2	(NA)	4
Other commercial buildings such as stores, restaurants, and automobile service stations	51 555	40 393	(NA)	11 162	6	7	(NA)	9
Industrial buildings and warehouses	111 662	77 408	(NA)	34 254	4	4	(NA)	7
Industrial buildings	98 507	66 407	(NA)	32 099	5	4	(NA)	6
Warehouses	13 154	11 000	(NA)	2 154	11	13	(NA)	21
Religious buildings	5 052	3 344	(NA)	1 707	9	9	(NA)	13
Educational buildings	32 547	27 728	(NA)	4 818	3	3	(NA)	9
Hospitals and institutional buildings	49 773	41 852	(NA)	7 921	3	3	(NA)	6
Other nonresidential buildings	32 560	27 096	(NA)	5 468	21	28	(NA)	17
Nonbuilding construction	440 759	370 495	(NA)	70 263	1	1	(NA)	4
Highways, streets, and related facilities	100 549	55 957	(NA)	44 591	1	2	(NA)	2
Bridges, tunnels, and elevated highways	17 016	13 459	(NA)	3 556	8	(W)	(NA)	40
Power and communication transmission lines, towers, and related facilities	6 062	3 815	(NA)	2 246	10	12	(NA)	13
Sewers, water mains, and related facilities	24 433	18 655	(NA)	5 778	9	9	(NA)	13
Sewers, sewer lines, and related facilities	16 469	13 919	(NA)	2 550	11	10	(NA)	18
Water mains and related facilities	7 964	4 736	(NA)	3 228	18	20	(NA)	17
Heavy industrial facilities	251 553	249 430	(NA)	*2 122	1	(W)	(NA)	45
Sewage treatment and water treatment plants	18 778	17 023	(NA)	1 754	4	3	(NA)	18
Sewage treatment plants	17 225	(D)	(NA)	(D)	4	(D)	(NA)	(D)
Water treatment plants	1 552	(D)	(NA)	(D)	5	(D)	(NA)	(D)
Other nonbuilding construction	22 368	12 156	(NA)	10 216	28	24	(NA)	27
Construction work, n.s.k.	124 999	105 620	(NA)	19 378	6	5	(NA)	9

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	5 337	29 889	50 929	26 487	10 657	30 487	12 962
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 138	4 853	7 759	4 449	1 705	4 858	1 927
1522	Other residential buildings -----	113	991	1 730	973	407	1 076	484
1531	Operative builders -----	372	1 683	2 965	1 517	675	1 777	794
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	33	564	957	608	248	580	261
1542	Nonresidential buildings, n.e.c. -----	179	2 486	4 079	2 418	998	2 435	987
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	99	1 842	3 946	1 036	466	2 177	1 102
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	5	106	182	70	34	108	47
1623	Water, sewer, and utility lines -----	57	659	1 304	559	266	681	333
1629	Heavy construction, n.e.c. -----	128	1 105	2 001	888	392	1 144	497
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	522	2 950	5 352	2 850	1 247	2 933	1 337
1721	Painting and paper hanging -----	244	991	1 440	784	283	994	358
1731	Electrical work -----	418	2 021	3 978	1 900	904	2 023	976
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	205	890	1 279	827	260	889	334
1742	Plastering, drywall, and insulation work --	176	1 851	2 399	1 867	551	1 800	599
1743	Terrazzo, tile, marble, and mosaic work --	22	104	129	103	32	110	32
175	Carpentry and floor work:							
1751	Carpentry -----	555	1 607	2 219	1 374	451	1 477	489
1752	Floor laying and other floor work -----	53	135	298	125	73	133	76
1761	Roofing, siding, and sheet metal work -----	154	927	1 772	815	367	991	489
1771	Concrete work -----	217	1 266	2 151	875	332	1 353	555
1781	Water well drilling -----	43	127	258	121	57	123	64
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	24	308	530	270	125	298	122
1793	Glass and glazing work -----	10	110	199	97	42	106	48
1794	Excavation work -----	298	1 260	2 056	1 049	345	1 289	530
1795	Wrecking and demolition work -----	*16	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	11	117	245	119	61	128	66
1799	Special trade contractors, n.e.c. -----	156	726	1 210	618	237	799	337
6552	Land subdividers and developers, n.e.c. --	76	*128	*349	91	*62	*121	*82

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
33 082	14 371	29 500	12 938	1	2	2	2	1	2	1	2	1	2	15, 16, 17
														15
5 536 973	2 251 437	4 570 940	1 874 401	4 9	5 14	4 9	6 13	4 9	5 14	4 9	6 14	4 10	5 15	152 1521 1522
1 838	808	1 601	686	9	11	9	11	9	11	9	11	10	13	1531 154
542 2 619	225 1 092	528 2 470	222 1 001	4 3	5 4	6 3	7 5	6 3	6 4	2 3	4 4	2 3	3 4	1541 1542 16
2 279	1 368	1 877	1 009	4	4	4	5	9	9	3	3	3	3	1611 162 1622
121 736 1 258	54 360 565	126 660 1 131	45 343 546	13 9 7	(W) 20 9	4 8 6	(W) 23 10	13 9 8	(W) 19 10	17 9 7	(W) 19 9	14 11 6	(W) 20 9	1623 1629 17
3 077	1 398	2 940	1 368	4	5	5	5	4	5	4	5	5	6	1711
1 233	444	951	354	10	12	10	13	10	12	12	13	10	13	1721
2 090	1 006	2 072	1 091	4	5	4	5	4	5	4	5	4	5	1731 174 1741
955 1 928 102	357 652 33	889 1 810 103	326 595 32	10 10 18	10 8 6	10 12 16	10 9 6	10 10 22	9 9 6	11 9 17	11 8 6	11 10 17	10 9 6	1742 1743 175
1 826 150	639 77	1 751 132	638 70	6 17	8 22	6 21	10 24	7 20	10 24	7 13	8 20	6 15	9 22	1751 1752
1 013	467	887	448	9	12	12	14	10	15	9	11	9	10	1761
1 604	695	1 231	568	7	11	12	14	8	11	8	11	8	12	1771
132	60	134	76	8	15	8	15	8	15	8	11	10	19	1781 179
360 120 1 466 (S) 112 804	144 56 623 (S) 59 357	303 118 1 234 (S) 110 685	138 53 556 (S) 57 279	11 10 9 (S) 13 16	23 9 11 (S) 17 20	11 9 10 (S) 13 17	22 9 12 (S) 17 21	9 9 10 (S) 14 15	19 8 12 (S) 18 19	11 11 10 (S) 12 16	25 10 12 (S) 15 19	13 10 10 (S) 14 18	24 10 13 (S) 19 22	1791 1793 1794 1795 1796 1799
*130	*90	*168	*114	44	51	36	44	41	50	45	50	52	59	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction Industries and land subdividers and developers -----	7.1	20.7	1 703.9	118.7	.221	.326	.246	.016
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	5.2	16.9	1 598.8	98.5	.210	.348	.255	.012
1522	Other residential buildings -----	10.9	20.0	1 745.7	144.5	.172	.252	.412	.006
1531	Operative builders -----	7.6	22.7	1 761.7	321.2	.119	.298	.374	.006
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	23.2	26.5	1 696.8	251.0	.143	(D)	(D)	.003
1542	Nonresidential buildings, n.e.c. -----	18.4	24.1	1 640.8	200.4	.160	.198	.536	.012
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	22.4	25.9	2 142.2	114.6	.273	.511	.108	.063
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	26.0	25.5	1 717.0	148.5	.211	(D)	.108	(D)
1623	Water, sewer, and utility lines -----	13.6	24.6	1 978.8	97.8	.296	(D)	.065	.051
1629	Heavy construction, n.e.c. -----	10.7	21.9	1 810.9	111.8	.242	.318	.119	.050
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	7.3	23.1	1 814.2	104.8	.284	.413	.098	.015
1721	Painting and paper hanging -----	4.7	14.4	1 453.1	42.8	.391	(D)	.018	.006
1731	Electrical work -----	6.2	20.5	1 968.3	82.2	.322	.435	.009	.010
174	Masonry, stoneowrk, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.0	15.9	1 437.1	56.3	.323	.326	.028	.020
1742	Plastering, drywall, and insulation work -----	12.4	21.9	1 296.1	90.6	.285	.321	.174	.008
1743	Terrazzo, tile, marble, and mosaic work -----	5.6	16.7	1 240.4	81.5	.244	.405	.035	.003
175	Carpentry and floor work:								
1751	Carpentry -----	3.5	15.3	1 380.8	62.5	.292	.340	.131	.007
1752	Floor laying and other floor work -----	3.1	17.8	2 207.4	80.4	.273	.477	.073	.023
1761	Roofing, siding, and sheet metal work -----	7.4	21.5	1 911.5	86.3	.307	(D)	.081	.014
1771	Concrete work -----	6.8	17.5	1 699.1	71.8	.286	.381	.039	.011
1781	Water well drilling -----	4.2	28.7	2 031.5	146.5	.276	.314	.019	.023
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	14.9	19.4	1 720.8	65.1	.345	.164	.065	.059
1793	Glass and glazing work -----	15.4	23.1	1 809.1	113.9	.284	.599	.005	.013
1794	Excavation work -----	5.3	20.5	1 631.7	113.8	.224	.237	.068	.031
1795	Wrecking and demolition work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. -----	14.7	37.3	2 094.0	144.0	.359	.312	(D)	.007
1799	Special trade contractors, n.e.c. -----	5.9	17.1	1 666.7	82.2	.263	.425	.028	.014
6552	Land subdividers and developers, n.e.c. -----	4.0	20.4	*2 726.6	207.5	.231	.210	.451	.006

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	BOSTON-LAWRENCE-SALEM, MA-NH CMSA											
	Construction industries and land subdividers and developers	12 195	106 775	2 682 394	11 630 374	8 529 645	5 464 036	3 268 597	3 100 728	193 944	1	1
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	2 036	9 878	190 367	969 012	695 776	419 802	302 597	273 236	15 183	3	4
1522	Other residential buildings	240	3 381	105 650	784 248	319 516	183 151	151 717	464 733	6 805	4	5
1531	Operative builders	741	5 232	137 526	1 122 028	652 314	344 524	339 463	469 714	17 161	5	5
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	112	1 811	49 158	345 773	184 633	121 176	67 228	161 141	4 173	7	7
1542	Nonresidential buildings, n.e.c.	602	11 190	309 723	2 150 883	1 028 667	680 012	368 355	1 122 216	16 738	2	2
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	209	2 902	82 791	360 572	304 567	189 073	127 387	56 004	12 721	5	4
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	15	410	10 805	48 025	38 665	26 551	(D)	9 360	1 192	8	11
1623	Water, sewer, and utility lines	174	2 385	70 525	272 073	242 975	167 525	(D)	29 099	12 992	4	4
1629	Heavy construction, n.e.c.	238	3 916	120 964	548 404	420 131	304 894	129 445	128 274	14 271	3	2
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	1 560	13 709	355 800	1 204 864	1 067 992	634 001	449 862	136 873	14 568	2	2
1721	Painting and paper hanging	622	3 731	67 229	195 922	184 802	146 109	39 350	11 119	2 962	4	3
1731	Electrical work	1 316	13 760	357 633	955 887	938 351	592 182	350 885	17 536	16 133	2	1
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	483	3 836	80 937	228 131	222 520	152 889	70 661	5 611	4 832	4	4
1742	Plastering, drywall, and insulation work	400	5 242	147 781	429 323	378 598	249 818	131 099	50 726	4 314	6	4
1743	Terrazzo, tile, marble, and mosaic work	79	521	14 503	39 743	37 977	23 842	14 594	1 766	*371	9	9
175	Carpentry and floor work:											
1751	Carpentry	1 084	4 297	78 246	294 183	245 810	145 583	110 265	48 373	4 505	5	5
1752	Floor laying and other floorwork	197	1 271	32 394	122 343	115 643	64 470	52 839	6 700	959	6	3
1761	Roofing, siding, and sheet metal work	478	4 064	89 198	283 720	264 310	166 971	100 264	19 410	4 924	5	4
1771	Concrete work	360	2 788	64 715	219 402	208 045	136 923	73 216	11 357	10 133	4	4
1781	Water well drilling	45	272	6 492	21 397	20 354	13 518	(D)	*1 044	1 287	16	11
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	80	1 635	46 387	120 354	115 664	91 554	26 142	4 691	1 473	5	7
1793	Glass and glazing work	90	1 153	32 797	97 798	91 805	49 020	46 072	5 993	1 143	7	5
1794	Excavation work	340	2 579	65 741	244 880	225 527	167 306	67 881	19 354	14 477	6	5
1795	Wrecking and demolition work	27	299	6 657	32 944	30 769	27 428	3 435	2 175	496	10	7
1796	Installing building equipment, n.e.c.	58	1 317	48 081	121 683	118 487	82 648	36 539	3 196	677	3	3
1799	Special trade contractors, n.e.c.	411	4 435	91 596	310 845	284 953	198 798	98 881	25 892	6 997	4	4
6552	Land subdividers and developers, n.e.c.	199	761	18 700	105 936	90 798	84 275	10 233	15 139	2 460	7	13
	BOSTON, MA PMSA											
	Construction industries and land subdividers and developers	8 065	75 301	1 971 028	8 662 678	6 189 758	4 020 477	2 310 510	2 472 921	122 302	1	1
	(See appropriate State for SIC detail.)											
	BROCKTON, MA PMSA											
	Construction industries and land subdividers and developers	476	4 124	92 274	382 859	329 699	194 278	139 335	53 160	7 802	7	4
	(See appropriate State for SIC detail.)											

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17	LAWRENCE-HAVERHILL, MA-NH PMSA											
	Construction industries and land subdividers and developers	1 247	8 756	197 477	793 655	640 911	426 504	241 057	152 744	22 615	2	3
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	Single-family houses	211	922	16 003	87 995	68 437	41 776	29 730	19 558	1 497	11	16
	Other residential buildings	15	202	5 375	20 896	10 944	10 902	(D)	9 952	277	14	13
	Operative builders	94	640	18 213	128 782	80 827	48 407	34 671	47 956	2 234	12	12
	General contractors, nonresidential buildings:											
	Industrial buildings and warehouses	3	59	1 842	(D)	(D)	(D)	(D)	(D)	(D)	(W)	(D)
	Nonresidential buildings, n.e.c.	35	445	10 475	49 422	28 310	17 973	11 376	21 113	822	14	12
	Heavy construction other than building construction—contractors:											
	Highway and street construction	14	286	8 061	22 719	19 773	15 161	7 752	2 946	2 819	13	9
	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Water, sewer, and utility lines	23	333	10 484	38 005	36 301	27 248	11 432	1 704	3 981	10	11
	Heavy construction, n.e.c.	26	228	6 085	23 222	21 539	15 121	7 758	1 683	3 139	11	5
	Special trade contractors:											
	Plumbing, heating, and air- conditioning	141	978	24 483	78 573	72 541	48 720	27 346	6 032	1 042	6	6
	Painting and paper hanging	49	184	2 613	6 055	5 668	4 262	(D)	*387	(D)	25	20
	Electrical work	104	763	17 851	52 074	51 430	28 920	22 541	645	1 040	9	8
	Masonry, stonework, tile setting, and plastering:											
	Masonry, stone setting, and other stonework	66	307	5 124	16 777	15 982	10 012	5 978	795	*369	15	17
	Plastering, drywall, and insulation work	43	571	16 352	55 138	43 628	30 115	(D)	11 509	255	10	12
	Terrazzo, tile, marble, and mosaic work	7	56	1 058	4 383	4 341	2 549	(D)	42	(D)	(W)	(W)
	Carpentry and floor work:											
	Carpentry	152	539	8 510	31 202	26 697	14 871	(D)	4 505	757	13	12
	Floor laying and other floorwork	*21	46	960	3 467	3 333	1 957	*1 396	134	(D)	27	31
	Roofing, siding, and sheet metal work	46	437	7 641	27 815	24 083	17 855	6 400	3 732	*902	11	8
	Concrete work	34	172	3 209	12 157	11 585	7 940	(D)	572	252	18	24
	Water well drilling	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	Miscellaneous special trade contractors:											
	Structural steel erection	(S)	202	4 594	(D)	(D)	(D)	(D)	(D)	(D)	18	(D)
	Glass and glazing work	7	41	1 207	4 934	(D)	2 148	2 846	(D)	(D)	91	(W)
	Excavation work	65	330	5 786	24 075	23 467	14 793	8 919	608	1 311	25	27
	Wrecking and demolition work	5	*37	*855	2 988	2 913	2 732	181	75	-	44	33
	Installing building equipment, n.e.c.	3	(D)	(D)	(S)	(D)	(S)	(S)	(D)	(S)	(D)	(D)
	Special trade contractors, n.e.c.	44	843	17 729	58 661	52 558	43 127	11 058	6 104	1 059	4	4
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
15,16, 17	LOWELL, MA-NH PMSA											
	Construction industries and land subdividers and developers	915	6 647	149 206	595 584	494 982	298 022	204 887	100 602	16 237	3	3
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	Other residential buildings	24	154	3 149	19 459	12 936	*6 037	6 975	6 524	(S)	22	35
	Operative builders	77	476	13 420	113 339	80 295	42 565	40 014	33 044	*2 357	14	14
	General contractors, nonresidential buildings:											
	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	Nonresidential buildings, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	LOWELL, MA-NH PMSA—Con.											
	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
15,16, 17 16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	15	196	7 159	17 342	16 697	10 530	(D)	645	764	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1623	Water, sewer, and utility lines -----	11	254	7 607	25 773	24 557	17 192	(D)	1 216	2 124	(W)	(W)
1629	Heavy construction, n.e.c. -----	9	87	1 937	11 161	8 704	6 715	(D)	2 457	(D)	25	36
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	97	737	17 463	52 253	48 577	28 149	(D)	3 676	1 139	10	10
1721	Painting and paper hanging-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1731	Electrical work -----	97	1 041	24 702	72 382	71 787	42 467	29 631	595	973	6	7
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
175	Carpentry and floor work:											
1751	Carpentry -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork-----	17	78	1 789	7 249	(D)	3 868	3 411	(D)	43	2	(D)
1761	Roofing, siding, and sheet metal work -----	50	378	6 209	19 532	18 168	11 520	6 648	1 364	*529	23	8
1771	Concrete work -----	51	482	10 133	37 450	(D)	22 972	12 254	(D)	(D)	11	(D)
1781	Water well drilling -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	3	(D)	227	488	(D)	387	(D)	(D)	55	(D)	(D)
1793	Glass and glazing work -----	6	32	653	1 986	1 964	932	1 151	22	*4	10	9
1794	Excavation work -----	20	99	2 296	13 512	12 134	8 662	(D)	1 378	*967	13	13
1795	Wrecking and demolition work -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -	5	129	3 094	(D)	(D)	5 164	2 045	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c. -----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
	NASHUA, NH PMSA											
	Construction industries and land subdividers and developers-----	686	6 352	142 506	652 837	476 400	284 599	202 927	176 437	13 524	3	4
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	114	856	9 643	45 386	34 659	19 400	15 889	10 727	419	15	12
1522	Other residential buildings -----	*9	176	5 534	31 818	16 601	9 974	(D)	15 217	(D)	3	(W)
1531	Operative builders -----	75	974	23 232	182 546	115 601	59 787	59 715	66 945	5 370	12	15
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1542	Nonresidential buildings, n.e.c. -----	32	763	17 472	112 966	51 763	32 345	(D)	61 203	1 241	8	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	8	176	4 550	19 371	18 429	12 645	7 463	942	(D)	8	6
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines -----	*7	113	(D)	(D)	(D)	(D)	(D)	(D)	469	17	(D)
1629	Heavy construction, n.e.c. -----	25	185	3 318	12 185	11 353	7 424	4 667	833	1 066	22	21

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	NASHUA, NH PMSA—Con.											
15,16, 17	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	59	449	11 320	36 766	32 858	18 229	16 261	3 908	520	12	10
1721	Painting and paper hanging-----	23	114	2 018	6 044	5 973	5 019	(D)	71	*222	12	31
1731	Electrical work-----	70	402	9 011	25 458	25 276	15 508	(D)	*182	341	8	10
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	32	202	3 697	9 738	9 506	6 289	3 227	*232	(S)	37	29
1742	Plastering, drywall, and insulation work-----	35	744	20 110	64 096	53 545	31 561	(D)	10 551	794	9	8
1743	Terrazzo, tile, marble, and mosaic work-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1771	Concrete work-----	21	138	2 846	10 446	10 140	6 035	(D)	306	503	19	16
1781	Water well drilling-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	5	66	1 045	3 523	3 236	2 242	(D)	*287	321	32	14
1793	Glass and glazing work-----	4	38	767	2 755	2 695	1 649	1 669	60	(D)	(W)	(W)
1794	Excavation work-----	17	201	5 338	17 160	15 971	12 543	4 120	1 188	604	10	10
1795	Wrecking and demolition work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c.-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.-----	24	169	2 037	9 168	8 798	4 844	4 093	370	(S)	33	33
6552	Land subdividers and developers, n.e.c.-----	*11	42	1 384	5 904	5 587	4 420	(D)	317	(D)	16	6
	SALEM-GLOUCESTER, MA PMSA											
	Construction industries and land subdividers and developers-----	807	5 595	129 904	542 762	397 896	240 157	169 882	144 866	11 464	3	3
	(See appropriate State for SIC detail.)											

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Rhode Island

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Rhode Island. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 9,269 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$2.7 billion in total value of business done.

Most of the 9,269 construction establishments were small. Of the total, 6,094 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,118 construction establishments with 5 employees or more, while representing only 12 percent of all establishments, accounted for more than 71 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.33 billion on total dollar value of business done. Of this amount, \$2.27 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$714 million, leaving net value of construction work of \$1.6 billion. In addition, these establishments paid out \$685 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$953 million. (See Introduction and appendices for explanation of terms.)

There were 3,175 establishments with total employment averaging 20,328 during the year. Total payroll for 1987 was \$469 million. Total hours worked by construction workers during the year were 26.5 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 6,094 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$366 million. Most of these establishments, about 76 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987 
1982 

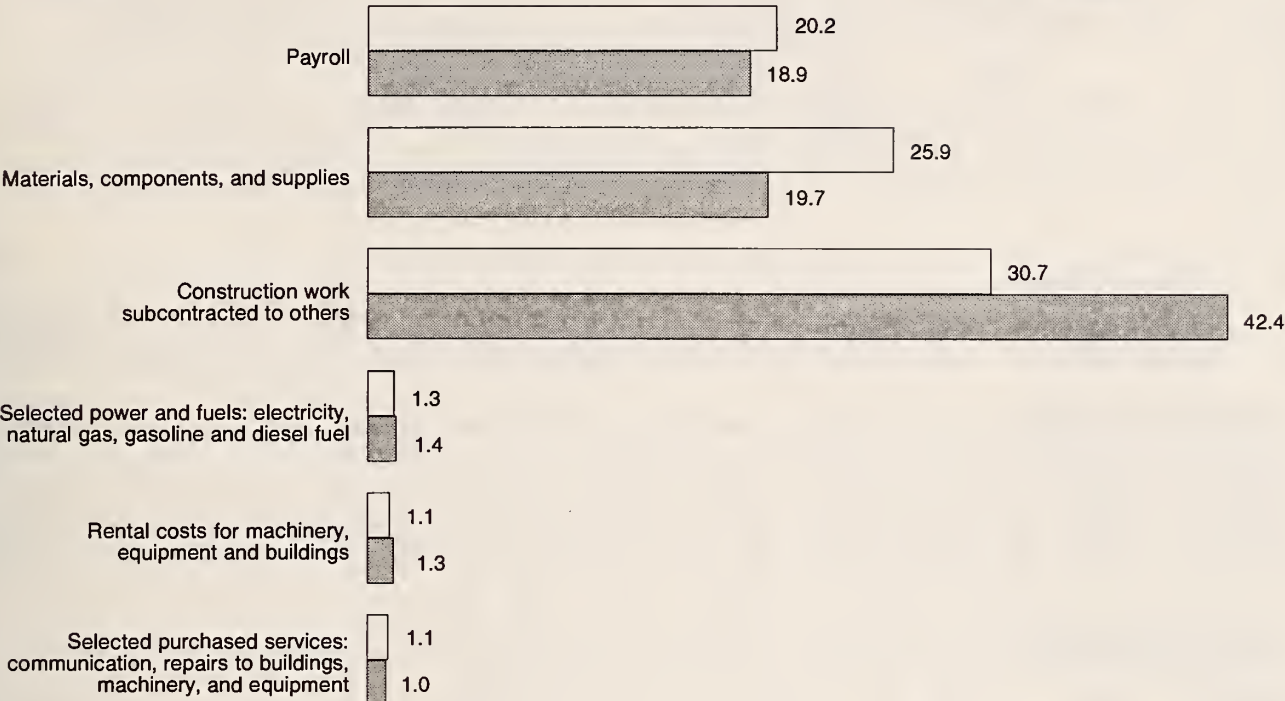




Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987 
1982 

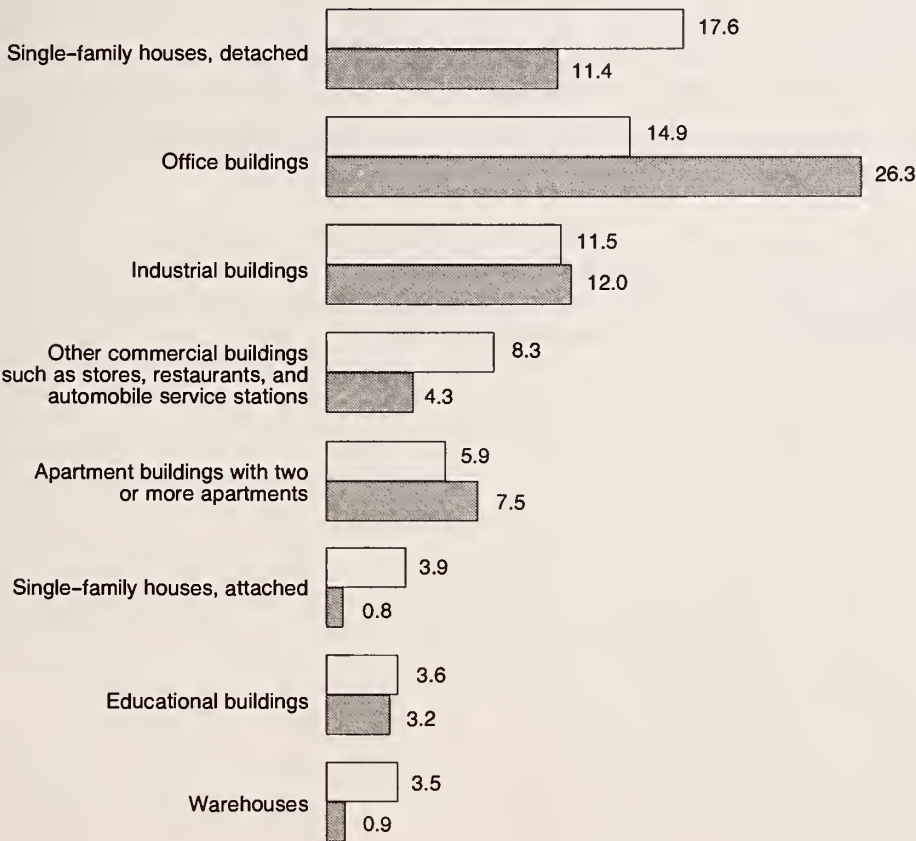


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers -----	9 269	6 403	20 328	2 693 125	6 094	5 895	365 595	3 175	508	20 328	2 327 530	2	2
15, 16, 17	Construction Industries -----	9 026	6 211	20 098	2 571 545	5 895	5 704	268 364	3 131	507	20 098	2 303 181	1	2
15	Building construction—General contractors and operative builders ----	2 157	1 179	6 331	1 290 523	1 216	1 050	125 482	941	129	6 331	1 165 041	3	3
16	Heavy construction other than building construction— contractors -----	174	46	1 913	227 004	48	44	2 477	126	2	1 913	224 527	7	4
17	Special trade contractors -----	6 695	4 986	11 854	1 054 018	4 631	4 610	140 405	2 064	376	11 854	913 613	2	3
1711	Plumbing, heating, and air-conditioning --	654	405	1 885	192 737	345	341	15 924	309	64	1 885	176 813	5	6
1731	Electrical work -----	605	392	1 883	150 402	318	310	9 489	287	82	1 883	140 913	5	3
6552	Land subdividers and developers, n.e.c.² -----	234	191	*216	*121 570	199	191	97 231	35	-	*216	*24 339	57	43
	1982													
	Construction Industries and land subdividers and developers -----	5 374	3 449	14 686	1 415 959	3 059	2 943	106 818	2 315	506	14 686	1 309 141	2	1
15, 16, 17	Construction Industries -----	5 301	3 419	14 616	1 400 842	3 004	2 914	95 402	2 297	505	14 616	1 305 440	2	1
15	Building construction—General contractors and operative builders ----	1 187	593	4 515	765 880	564	510	40 086	623	83	4 515	725 794	4	2
16	Heavy construction other than building construction— contractors -----	222	138	1 419	126 431	133	128	4 922	89	10	1 419	121 509	5	3
17	Special trade contractors -----	3 892	2 688	8 682	508 531	2 307	2 276	50 394	1 585	412	8 682	458 137	3	3
1711	Plumbing, heating, and air-conditioning --	522	331	1 585	114 984	261	256	7 553	261	75	1 585	107 431	7	5
1731	Electrical work -----	414	243	1 547	89 323	187	178	4 390	227	65	1 547	84 933	8	5
6552	Land subdividers and developers, n.e.c.² -----	69	29	(S)	(S)	55	29	11 416	14	(S)	(S)	(S)	(S)	(S)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	9 269	6 403	20 328	2 693 125	6 094	5 895	365 595	3 175	508	20 328	2 327 530	2	2
\$10,000,000 or more	26	-	3 288	835 354	-	-	-	26	-	3 288	835 354	(W)	(W)
\$5,000,000 to \$9,999,999	25	4	1 072	169 434	4	4	25 669	21	-	1 072	143 765	2	5
\$2,500,000 to \$4,999,999	90	6	2 228	310 317	6	6	21 605	84	-	2 228	288 712	3	6
\$1,000,000 to \$2,499,999	325	43	3 891	467 845	32	30	44 383	293	*13	3 891	423 462	6	8
\$500,000 to \$999,999	370	59	2 540	261 477	63	49	41 540	307	10	2 540	219 937	7	8
 \$250,000 to \$499,999	738	224	2 983	254 229	137	106	45 728	601	118	2 983	208 501	8	8
\$100,000 to \$249,999	(S)	(S)	(S)	(S)	456	431	70 689	(S)	(S)	(S)	(S)	(S)	(S)
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	658	622	45 826	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	994	966	35 651	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000	(S)	(S)	(S)	(S)	3 744	3 681	34 503	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 484	1 462	24 761	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	891	880	6 434	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	628	614	2 290	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	741	725	1 019	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	5 374	3 449	14 686	1 415 959	3 059	2 943	106 818	2 315	506	14 686	1 309 141	2	1
\$10,000,000 or more	11	-	2 090	(D)	-	-	-	11	-	2 090	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	22	2	1 241	(D)	2	2	(D)	20	-	1 241	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	40	-	1 711	856 293	1	-	(D)	39	-	1 711	856 293	(W)	(W)
\$1,000,000 to \$2,499,999	84	6	1 760	146 606	2	4	20 612	8 200	26	176 000	125 994	5	7
\$500,000 to \$999,999	125	4	1 465	87 441	8	4	6 044	117	-	1 465	81 397	7	10
 \$250,000 to \$499,999	330	29	2 196	113 115	26	14	8 251	304	*15	2 196	104 864	10	9
\$100,000 to \$249,999	692	259	2 104	105 991	116	111	16 892	576	148	2 104	89 099	8	8
\$50,000 to \$99,999	772	420	1 142	53 892	278	266	18 713	494	154	1 142	35 179	9	8
\$25,000 to \$49,999	867	584	594	29 821	511	502	17 617	356	82	594	12 204	12	8
 Less than \$25,000	2 429	2 144	382	22 797	2 115	2 040	18 689	314	104	382	4 108	12	11
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	872	836	13 548	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	520	506	3 529	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	468	452	1 357	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	255	246	255	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers	3 175	20 326	15 622	469 263	336 540	26 459	2 271 296	1 557 753
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	546	2 249	1 906	35 251	27 611	2 679	163 421	139 240
1522	Other residential buildings	47	352	237	6 770	5 276	502	64 692	32 615
1531	Operative builders	166	660	470	19 065	9 644	(D)	153 474	63 775
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	51	850	858	28 888	18 756	1 090	269 141	91 463
1542	Nonresidential buildings, n.e.c.	131	1 820	1 455	54 583	37 186	2 594	446 426	161 430
16	Heavy construction other than building construction—contractors:								
1811	Highway and street construction	47	764	624	20 336	16 615	1 198	102 715	82 155
182	Heavy construction, except highway:								
1822	Bridge, tunnel, and elevated highway construction	*6	67	64	3 036	2 102	(D)	18 084	12 271
1823	Water, sewer, and utility lines	35	666	550	14 771	11 270	1 089	62 913	55 472
1829	Heavy construction, n.e.c.	36	378	310	8 482	7 420	454	38 435	32 183
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	309	1 885	1 388	43 846	32 414	2 251	172 803	147 878
1721	Painting and paper hanging	242	877	711	14 588	10 748	1 184	36 068	38 250
1731	Electrical work	287	1 883	1 488	48 835	37 570	2 632	136 815	135 947
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	131	1 088	665	25 188	18 088	1 272	78 431	78 802
1742	Plastering, drywall, and insulation work	115	1 188	1 013	38 348	25 586	1 727	80 468	88 827
1743	Terrazzo, tile, marble, and mosaic work	30	108	78	2 424	1 653	131	8 102	7 853
175	Carpentry and floor work:								
1751	Carpentry	288	1 093	950	20 161	15 867	1 548	81 351	70 054
1752	Floor laying and other floor work	37	140	113	3 358	2 247	176	18 202	15 858
1781	Roofing, siding, and sheet metal work	155	847	755	18 848	13 642	1 307	56 734	55 481
1771	Concrete work	124	718	578	15 145	10 804	954	48 511	46 697
1781	Water well drilling	18	78	61	1 616	1 384	141	7 708	7 844
179	Miscellaneous special trade contractors:								
1781	Structural steel erection	14	182	138	4 323	3 376	239	19 633	19 862
1783	Glass and glazing work	16	207	144	4 338	2 784	234	14 657	14 437
1784	Excavation work	105	470	361	10 801	8 484	623	40 253	38 334
1795	Wrecking and demolition work	11	67	71	2 423	1 588	122	6 546	6 042
1798	Installing building equipment, n.e.c.	8	114	61	3 664	2 914	181	13 140	12 826
1788	Special trade contractors, n.e.c.	171	627	650	14 888	11 366	995	57 342	55 140
8552	Land subdividers and developers, n.e.c.	35	*216	*60	*3 914	*613	42	15 671	*10 965

*In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts†	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
952 879	633 075	713 545	26 281	42 928	220 888	14 686	1 289 115	471 711	2	2	8	15, 16, 17
												15
69 702 18 048	71 068 14 770	44 180 52 076	1 425 336	3 033 1 335	15 062 3 347	1 537 378	73 538 35 367	32 014 (D)	7 13	8 8	20 7	152 1521 1522
34 451	49 896	69 699	404	1 397	6 503	495	28 158	*6 777	16	21	40	1531
41 493 96 451	51 488 86 775	177 658 266 998	1 932 3 575	2 191 3 161	8 876 21 994	319 1 786	34 748 543 642	18 744 89 101	11 6	6 5	11 18	154 1541 1542
												16
66 265	17 418	20 559	2 733	6 158	32 929	582	49 470	24 359	8	7	24	1611
7 264 36 510 22 710	(D) 19 446 9 833	*3 823 7 440 7 241	(D) 1 534 1 125	- 2 525 703	- 16 114 5 294	(D) (D) 548	(D) (D) 42 763	(D) (D) 27 297	18 8 12	13 6 10	- 8 12	162 1622 1623 1629
												17
83 344	68 440	25 027	2 321	3 069	12 434	1 585	106 262	43 654	5	5	15	1711
29 191	7 119	1 836	455	1 219	2 484	554	13 625	10 142	9	6	34	1721
87 134	50 911	2 868	1 371	2 106	15 967	1 547	83 924	50 679	5	3	17	1731
52 490 59 429 4 789	24 505 (D) (D)	2 528 3 560 *149	917 862 75	1 636 1 136 116	6 587 4 304 1 605	661 894 119	33 452 35 987 4 578	24 142 22 892 2 276	6 7 11	7 7 16	18 15 22	174 1741 1742 1743
44 877 9 064	27 738 (D)	11 297 244	562 76	1 691 (D)	6 550 468	415 126	16 172 5 277	8 325 2 718	8 7	11 2	21 (D)	175 1751 1752
32 773	23 066	*3 243	634	1 348	9 296	661	31 047	16 869	9	7	24	1761
34 543	(D)	2 813	671	2 127	14 045	492	33 809	13 976	8	9	19	1771
5 074	(D)	65	(D)	498	3 573	(D)	5 134	3 644	1	1	2	1781
18 505 8 136 31 671 7 560 8 748 33 461	(D) 6 721 8 874 777 (D) 23 310	170 220 1 918 504 311 2 202	280 230 3 367 518 *77 409	196 219 *5 561 553 (D) 827	1 589 1 035 19 122 2 461 361 5 868	241 123 647 28 151 322	9 078 9 160 33 132 1 297 13 023 16 828	7 278 4 413 23 237 1 189 8 192 9 726	11 5 11 (W) 19 14	5 2 12 (W) 15 27	12 28 48 35 (D) 22	179 1791 1793 1794 1795 1796 1799
*9 185	*2 503	*4 905	115	97	3 011	(S)	(D)	(S)	57	45	9	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	3 175	2 315	2 463	2 482	1	4	5	5
Proprietors and working partners	508	506	865	1 226	11	9	11	9
All employees**	20 328	14 686	14 587	20 061	2	2	2	2
Construction workers:								
March	13 578	9 475	9 227	12 412	2	3	3	3
May	15 855	11 681	13 415	15 259	2	3	3	3
August	17 631	11 848	13 491	18 369	2	3	3	3
November	16 225	11 532	12 443	18 050	2	3	3	3
Average	15 822	11 366	12 154	16 329	2	2	3	3
Other employees:								
March	4 329	3 263	2 334	2 971	3	3	4	3
May	4 467	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
August	4 537	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
November	4 688	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Average	4 505	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	5 454	3 949	(NA)	(NA)	2	4	(NA)	(NA)
April to June	6 710	4 918	(NA)	(NA)	2	3	(NA)	(NA)
July to September	7 361	5 085	(NA)	(NA)	2	3	(NA)	(NA)
October to December	6 933	4 900	(NA)	(NA)	2	4	(NA)	(NA)
Total hours worked	26 459	18 854	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	469 283	247 027	170 715	209 361	1	2	2	2
Payroll, construction workers	336 540	176 814	130 162	167 993	1	2	2	2
Payroll, other employees	132 743	70 213	40 553	41 368	2	1	2	2
First quarter payroll, all employees	95 226	51 658	31 266	(NA)	2	2	2	(NA)
Employer costs for fringe benefits, all employees	112 206	49 740	35 456	(NA)	2	2	1	(NA)
Legally required expenditures	75 272	35 404	19 540	(NA)	2	2	2	(NA)
Voluntary expenditures	36 934	14 336	15 916	(NA)	2	2	1	(NA)
Dollar value of business done	2 327 530	1 309 141	749 175	782 597	2	1	2	2
Value of construction work ¹	2 271 298	1 289 115	731 923	749 472	2	1	2	2
Value of construction work subcontracted in from others	453 958	235 353	149 059	127 111	5	3	3	4
Land receipts ²	28 028	(D)	(NA)	(NA)	19	(D)	(NA)	(NA)
Other business receipts	28 202	(D)	17 252	33 125	4	(D)	3	4
Net value of construction†	1 557 753	733 482	516 015	518 186	2	2	2	2
Value added††	952 879	471 711	322 994	336 978	2	2	2	3
Selected costs	1 346 621	832 246	422 440	442 297	2	1	2	2
Materials, components, and supplies ³	603 065	258 289	194 141	211 011	3	2	2	3
Construction work subcontracted to others	713 545	555 633	215 908	231 286	2	1	2	2
Selected power, fuels, and lubricants	30 010	18 324	12 392	(NA)	3	4	3	(NA)
Electricity	3 952	2 442	2 059	(NA)	8	4	4	(NA)
Natural gas	1 249	1 109	858	(NA)	11	4	6	(NA)
Gasoline and diesel fuel	22 895	13 522	7 834	(NA)	2	4	3	(NA)
On highway use	18 926	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Off highway use	3 969	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	1 912	1 249	1 640	(NA)	8	11	9	(NA)
Rental cost for machinery, equipment, and buildings	26 281	16 758	9 202	(NA)	4	3	3	(NA)
For machinery and equipment	17 951	14 174	7 716	7 944	5	4	3	3
For buildings	8 329	2 583	1 486	(NA)	4	5	6	(NA)
Selected purchased services	26 030	13 224	10 993	(NA)	3	3	3	(NA)
Communication services	8 764	5 142	3 713	(NA)	4	4	4	(NA)
Repairs to buildings and other structures	1 679	665	761	(NA)	9	10	12	(NA)
Repairs to machinery and equipment	15 586	7 416	6 519	(NA)	4	6	4	(NA)
Ownership of construction projects:								
Value of construction work	2 271 298	1 289 115	731 923	749 472	2	1	2	2
Government owned	337 059	214 718	205 114	235 748	5	5	2	1
Federal	81 835	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
State and local	255 224	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Privately owned	1 934 239	1 074 396	526 809	513 724	2	2	2	3

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	185 309	137 030	4	4
Capital expenditures, other than land -----	42 928	10 827	8	4
New -----	36 178	8 001	9	6
Used -----	6 750	2 825	11	8
Retirements and disposition of depreciable assets -----	7 350	3 739	11	8
End-of-year gross book value of depreciable assets -----	220 888	144 118	4	4
Depreciation charges during year -----	30 375	16 944	6	4
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	42 279	30 907	9	8
Capital expenditures, other than land -----	5 215	1 199	28	7
New buildings and other structures -----	4 126	924	35	3
Used buildings and other structures -----	1 088	275	17	30
Retirements and disposition of depreciable assets -----	*941	710	45	4
End-of-year gross book value of depreciable assets -----	46 552	31 396	8	8
Depreciation charges during year -----	5 560	1 744	9	10
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	143 030	106 123	4	4
Capital expenditures, other than land -----	37 713	9 627	8	5
New machinery and equipment, including automobiles and trucks -----	32 051	7 077	9	6
New automobiles and trucks, intended primarily for highway use -----	18 429	3 092	10	10
Used machinery and equipment, including automobiles and trucks -----	5 661	2 550	12	7
Retirements and disposition of depreciable assets -----	6 408	3 028	11	9
End-of-year gross book value of depreciable assets -----	174 335	112 722	5	4
Depreciation charges during year -----	24 814	15 200	7	4

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	3 175	1
Value of construction work	2 271 298	2
Establishments with inventories:		
Number	1 036	6
Value of construction work	814 643	5
Inventories¹:		
End of 1987, materials and supplies	15 578	6
End of 1986, materials and supplies	13 143	6
Establishments with no inventories:		
Number	1 675	5
Value of construction work	1 227 704	3
Establishments not reporting:		
Number	464	10
Value of construction work	228 951	7

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	
1987										
Number of establishments	3 175	2 055	657	301	122	27	7	4	-	-
All employees**	20 328	4 253	4 114	4 045	3 677	1 774	1 163	1 300	-	-
Payroll, all employees	469 283	69 207	74 904	88 426	98 349	51 318	46 396	40 682	-	-
Construction worker hours (thousands)	26 459	5 751	5 183	5 183	4 686	2 505	1 534	1 612	-	-
Dollar value business done	2 327 530	403 319	334 361	334 872	383 312	246 715	294 883	330 066	-	-
Value of construction work ¹	2 271 298	389 023	321 307	324 919	374 483	239 183	622 383	(D)	-	-
Net value of construction work†	1 557 753	306 229	268 063	267 784	289 839	149 021	137 564	139 251	-	-
Value added††	952 879	171 171	162 535	172 865	189 203	99 211	85 245	72 648	-	-
Cost of materials, components, supplies, and fuels	633 075	137 862	111 539	98 123	164 063	(D)	121 488	(D)	-	-
Cost of construction work subcontracted to others	713 545	82 793	53 243	57 135	84 643	90 162	345 568	(D)	-	-
Rental cost for machinery, equipment, and buildings	26 281	3 234	2 912	4 341	6 806	4 155	2 699	2 132	-	-
Capital expenditures, other than land	42 928	12 919	6 654	8 617	6 265	3 042	5 429	(D)	-	-
End-of-year gross book value of depreciable assets	220 888	48 478	37 920	46 628	37 924	15 118	17 207	17 611	-	-
1982										
All employees**	14 686	3 127	2 593	2 370	2 404	1 688	2 504	-	(D)	-
Value of construction work ¹	1 289 115	134 752	123 919	129 661	199 144	155 595	546 043	-	(D)	-
Value added††	471 711	69 676	53 540	69 897	96 834	181 761	(D)	-	(D)	-
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	4	7	6	4	(W)	(W)	(W)	-	-
Net value of construction work†	2	6	9	6	2	(W)	(W)	(W)	-	-
Capital expenditures, other than land	8	20	22	18	10	(W)	(W)	(D)	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	3 175	(S)	(S)	(S)	(S)	601	307	293	84	21	26
All employees**	20 328	(S)	(S)	(S)	(S)	2 983	2 540	3 891	2 228	1 072	3 288
Payroll, all employees	469 283	(S)	(S)	(S)	(S)	52 321	54 132	90 719	64 994	31 989	115 019
Construction worker hours (thousands)	26 459	(S)	(S)	(S)	(S)	3 990	3 148	4 556	3 182	1 577	4 249
Dollar value of business done	2 327 530	(S)	(S)	(S)	(S)	208 501	219 937	423 462	288 712	143 765	835 354
Value of construction work ¹	2 271 298	(S)	(S)	(S)	(S)	203 381	213 208	402 524	278 892	142 495	826 334
Net value of construction work†	1 557 753	(S)	(S)	(S)	(S)	176 478	173 858	326 567	319 846	(D)	373 937
Value added††	952 879	(S)	(S)	(S)	(S)	108 291	105 571	200 980	133 308	70 000	221 697
Cost of materials, components, supplies, and fuels	633 075	(S)	(S)	(S)	(S)	70 283	71 132	130 273	87 128	197 599	(D)
Cost of construction work subcontracted to others	713 545	(S)	(S)	(S)	(S)	26 903	39 349	75 956	101 541	(D)	452 397
Rental cost for machinery, equipment, and buildings	26 281	(S)	(S)	(S)	(S)	2 217	1 889	4 302	5 439	4 322	6 022
Capital expenditures, other than land	42 928	(S)	(S)	(S)	(S)	10 356	3 764	8 643	4 108	1 222	7 830
End-of-year gross book value of depreciable assets	220 888	(S)	(S)	(S)	(S)	43 467	25 280	38 138	28 512	11 220	42 772
1982											
All employees**	14 686	382	594	1 142	2 104	2 196	1 465	1 760	1 711	1 241	2 090
Value of construction work ¹	1 289 115	4 073	12 128	34 667	87 037	100 874	77 686	124 161	137 293	146 846	564 349
Value added††	471 711	2 253	6 692	18 256	47 755	50 057	38 606	69 256	64 315	59 755	114 763
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	(S)	(S)	8	7	6	3	2	(W)
Net value of construction work†	2	(S)	(S)	(S)	(S)	8	8	8	5	(D)	(W)
Capital expenditures, other than land	8	(S)	(S)	(S)	(S)	27	13	21	12	3	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	2 271 298	1 410 719	541 660	186 349	2	2	2	3
Building construction	1 859 845	1 247 031	463 262	141 543	2	3	3	4
Single-family houses	490 427	359 680	88 204	42 542	6	8	7	8
Single-family houses, detached	400 689	283 912	80 609	36 167	7	9	8	9
Single-family houses, attached	89 738	75 768	7 594	6 375	14	17	15	24
Apartment buildings with two or more apartments	133 022	100 070	23 167	9 784	8	10	13	12
Other residential buildings, including hotels and motels	102 889	61 524	35 166	8 198	6	7	14	10
Hotels and motels	48 147	35 644	9 205	1 296	10	11	19	8
Other residential buildings, excluding hotels and motels	56 741	25 879	25 960	4 901	9	6	17	13
Office buildings	339 495	215 533	108 124	15 838	3	3	6	7
Other commercial buildings such as stores, restaurants, and automobile service stations	188 153	127 255	43 703	17 193	5	5	9	12
Industrial buildings and warehouses	342 621	253 600	61 603	27 417	3	3	5	12
Industrial buildings	262 305	183 358	53 830	25 118	4	4	5	13
Warehouses	80 315	70 241	7 773	2 300	3	3	6	12
Religious buildings	22 720	8 955	7 975	5 789	21	33	38	14
Educational buildings	81 690	40 307	33 058	8 328	3	2	5	12
Hospitals and institutional buildings	118 887	59 530	52 335	5 021	1	1	2	17
Other nonresidential buildings	33 932	20 577	9 929	3 435	6	5	23	17
Land development for buildings	7 809	(NA)	(NA)	(NA)	29	(NA)	(NA)	(NA)
Nonbuilding construction	288 892	163 888	76 397	44 806	3	4	5	8
Highways, streets, and related facilities	99 201	44 827	36 705	17 889	5	8	8	3
Bridges and elevated highways	17 079	18 284	(D)	(D)	19	18	(D)	(D)
Sewers, water mains, and related facilities	65 506	35 987	22 229	7 289	5	7	2	6
Sewers, sewer lines, and related facilities	39 331	19 739	15 295	4 295	3	3	2	7
Water mains and related facilities	28 175	16 248	6 933	2 993	10	14	3	11
Blast furnaces, petroleum refineries, and chemical complexes	13 259	5 521	4 708	3 031	9	8	8	20
Sewage treatment and water treatment plants	22 392	19 708	(D)	(D)	1	1	(D)	(D)
Other nonbuilding construction	89 455	41 583	13 187	14 708	25	40	30	40
Construction work, n.s.k.	124 781	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	1 289 116	1 083 290	(NA)	225 824	1	1	(NA)	3
Building construction	1 040 124	555 773	(NA)	154 351	1	1	(NA)	3
Single-family houses	158 642	109 623	(NA)	47 219	5	8	(NA)	7
Single-family houses, detached	148 597	102 511	(NA)	44 085	5	8	(NA)	7
Single-family houses, attached	10 245	7 111	(NA)	3 133	17	20	(NA)	30
Apartment buildings with two or more apartments	96 621	84 157	(NA)	12 483	3	4	(NA)	11
Other residential buildings, including hotels and motels	25 933	22 829	(NA)	3 303	3	3	(NA)	7
Office buildings	338 972	320 376	(NA)	18 598	1	(W)	(NA)	8
Other commercial buildings such as stores, restaurants, and automobile service stations	55 149	42 902	(NA)	12 247	5	5	(NA)	12
Industrial buildings and warehouses	185 997	130 322	(NA)	35 674	3	3	(NA)	6
Industrial buildings	154 714	121 852	(NA)	33 082	4	4	(NA)	8
Warehouses	11 283	8 870	(NA)	2 812	8	8	(NA)	11
Religious buildings	9 704	5 489	(NA)	4 214	15	28	(NA)	8
Educational buildings	41 835	33 737	(NA)	8 097	8	9	(NA)	9
Hospitals and institutional buildings	118 518	108 191	(NA)	10 326	1	1	(NA)	6
Other nonresidential buildings	32 553	30 347	(NA)	2 212	5	4	(NA)	32
Nonbuilding construction	173 630	118 534	(NA)	57 098	3	3	(NA)	4
Highways, streets, and related facilities	59 819	28 979	(NA)	32 839	5	7	(NA)	8
Bridges, tunnels, and elevated highways	4 530	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Sewers, water mains, and related facilities	35 288	31 395	(NA)	3 890	7	7	(NA)	8
Sewers, sewer lines, and related facilities	21 133	18 880	(NA)	2 453	5	5	(NA)	11
Water mains and related facilities	14 153	12 715	(NA)	1 437	16	18	(NA)	18
Heavy industrial facilities	31 958	21 182	(NA)	10 774	1	(W)	(NA)	2
Sewage treatment and water treatment plants	19 474	17 420	(NA)	*2 053	5	(W)	(NA)	41
Other nonbuilding construction	22 565	(D)	(NA)	(D)	21	(D)	(NA)	(D)
Construction work, n.s.k.	75 380	80 982	(NA)	14 377	7	7	(NA)	10

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and land subdividers and developers -----	3 175	15 822	26 459	13 578	5 454	15 855	6 710
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	546	1 906	2 679	1 717	579	1 877	663
1522	Other residential buildings -----	47	237	502	215	124	211	116
1531	Operative builders -----	166	470	(D)	482	(D)	497	(D)
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	51	666	1 090	567	244	635	266
1542	Nonresidential buildings, n.e.c. -----	131	1 456	2 594	1 282	556	1 489	645
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	47	624	1 198	329	130	718	359
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	*6	64	(D)	66	(D)	66	(D)
1623	Water, sewer, and utility lines -----	35	550	1 089	446	207	562	277
1629	Heavy construction, n.e.c. -----	38	310	464	250	90	352	131
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	309	1 398	2 251	1 334	526	1 362	567
1721	Painting and paper hanging -----	242	711	1 164	471	180	687	294
1731	Electrical work -----	287	1 489	2 632	1 425	616	1 390	655
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	131	865	1 272	641	188	854	344
1742	Plastering, drywall, and insulation work ----	115	1 013	1 727	893	393	1 008	392
1743	Terrazzo, tile, marble, and mosaic work ----	30	78	131	83	35	86	38
175	Carpentry and floor work:							
1751	Carpentry -----	289	950	1 546	859	327	932	395
1752	Floor laying and other floor work -----	37	113	178	109	41	112	42
1761	Roofing, siding, and sheet metal work -----	155	755	1 307	627	260	753	333
1771	Concrete work -----	124	578	954	390	142	581	239
1781	Water well drilling -----	18	61	141	58	31	66	36
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	14	136	239	94	37	131	59
1793	Glass and glazing work -----	18	144	234	139	59	110	42
1794	Excavation work -----	105	381	623	285	103	420	170
1795	Wrecking and demolition work -----	11	71	122	69	26	73	31
1796	Installing building equipment, n.e.c. -----	8	81	161	90	46	80	39
1799	Special trade contractors, n.e.c. -----	171	660	995	595	233	732	270
6552	Land subdividers and developers, n.e.c. --	35	*60	42	*52	*9	*61	*9

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
17 631	7 361	16 225	6 933	2	2	2	2	2	2	2	2	2	2	15, 16, 17
														15
2 120 261	736 128	1 912 261	699 133	7 12	9 17	7 13	10 20	7 14	10 20	7 11	10 17	7 10	10 15	152 1521 1522
486	(D)	415	(D)	20	22	21	23	21	22	19	23	19	22	1531 154
802 1 589	305 734	661 1 465	273 658	13 6	12 9	9 6	11 9	10 6	11 9	19 6	15 10	13 7	13 10	1541 1542 16
757	361	691	347	6	8	9	13	7	9	6	9	6	9	1611 162 1622
60 615 341	(D) 311 128	66 579 299	(D) 293 113	16 7 11	(D) 11 9	23 4 10	(D) 7 7	17 8 10	(D) 12 8	13 8 11	(D) 12 10	11 8 13	(D) 12 12	1623 1629 17
1 447	570	1 450	587	5	8	6	10	6	9	5	8	5	9	1711
963	392	724	297	9	10	11	12	11	10	12	12	13	12	1721
1 575	695	1 485	664	5	5	5	5	6	6	6	6	5	6	1731 174
1 021 1 135 79	333 490 32	946 1 017 64	404 450 25	7 6 13	8 8 11	10 7 13	13 10 11	7 6 11	9 9 9	7 6 16	8 8 16	7 7 13	7 7 15	1741 1742 1743
1 005 121	415 47	1 005 110	407 46	7 10	8 7	8 7	8 6	7 8	9 3	8 13	9 8	12 14	11 15	175 1751 1752
836	370	805	342	9	9	10	8	9	9	11	10	10	8	1761
702	308	639	263	7	10	9	12	7	10	8	11	8	11	1771
62	36	59	36	(W)	3	5	6	2	4	2	2	5	4	1781 179
152 162 437 70 77 682	69 64 185 30 37 253	169 164 382 74 79 630	72 67 164 34 38 238	13 7 12 (W) 16 13	24 10 13 8 22 16	19 3 14 (W) 18 15	38 5 15 10 23 24	16 11 12 (W) 15 14	25 18 13 8 21 18	9 9 14 (W) 16 14	19 11 16 6 22 19	11 8 14 (W) 15 14	20 10 12 8 21 18	1791 1793 1794 1795 1796 1799
*62	14	*66	*9	57	39	59	44	62	42	50	35	58	42	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	6.4	23.1	1 672.3	143.6	.207	.279	.314	.012
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.1	15.7	1 405.6	96.2	.192	.387	.241	.008
1522	Other residential buildings	7.5	24.9	2 118.1	357.4	.104	.174	.615	.004
1531	Operative builders	5.2	22.2	(D)	326.5	.124	.325	.454	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	18.6	28.4	1 636.6	404.1	.100	.191	.660	.007
1542	Nonresidential buildings, n.e.c.	14.7	28.4	1 781.6	308.0	.122	.194	.595	.008
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	16.3	26.6	1 919.9	164.6	.198	.170	.200	.027
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	*14.5	34.9	(D)	251.5	.189	(D)	.238	(D)
1623	Water, sewer, and utility lines	19.6	21.5	1 980.0	114.4	.235	.309	.118	.024
1629	Heavy construction, n.e.c.	9.9	25.2	1 496.8	127.2	.241	.249	.184	.029
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	6.1	23.2	1 610.2	123.7	.252	.396	.145	.013
1721	Painting and paper hanging	3.6	16.6	1 637.1	53.6	.383	.187	.048	.012
1731	Electrical work	6.6	25.9	1 791.7	94.5	.352	.367	.021	.010
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	8.2	23.6	1 470.5	91.8	.317	.309	.032	.012
1742	Plastering, drywall, and insulation work	10.4	32.1	1 704.8	89.3	.424	(D)	.039	.010
1743	Terrazzo, tile, marble, and mosaic work	3.5	22.9	1 679.5	103.9	.299	(D)	.018	.009
175	Carpentry and floor work:								
1751	Carpentry	3.8	18.5	1 627.4	85.6	.248	.341	.139	.007
1752	Floor laying and other floor work	3.8	24.0	1 575.2	143.4	.207	(D)	.015	.005
1761	Roofing, siding, and sheet metal work	6.1	19.9	1 731.1	77.8	.321	.393	.055	.011
1771	Concrete work	5.8	21.2	1 650.5	85.7	.306	(D)	.057	.014
1781	Water well drilling	4.2	23.9	2 311.5	126.4	.236	(D)	.008	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	11.6	26.7	1 757.4	145.8	.218	(D)	.009	.014
1793	Glass and glazing work	11.5	20.9	1 625.0	101.8	.296	.459	.015	.016
1794	Excavation work	4.5	23.0	1 635.2	105.7	.268	.220	.048	.084
1795	Wrecking and demolition work	7.9	27.9	1 718.3	120.4	.284	.091	.059	*.061
1796	Installing building equipment, n.e.c.	14.3	33.9	1 987.7	162.2	.294	(D)	.024	.006
1799	Special trade contractors, n.e.c.	4.8	18.0	1 507.6	86.9	.260	.407	.038	.007
6552	Land subdividers and developers, n.e.c.	*6.2	*18.1	*700.0	*264.5	*.247	*.158	*.309	.007

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	PROVIDENCE-PAWTUCKET- FALL RIVER, RI-MA CMSA											
	Construction industries and land subdividers and developers	3 409	23 140	528 751	2 573 769	1 785 292	1 095 296	724 893	788 477	50 221	2	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	54	423	9 974	103 088	38 118	21 544	16 830	64 970	1 336	12	8
1531	Operative builders	181	924	21 411	181 176	105 717	42 230	64 085	75 460	2 007	15	19
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	52	1 034	28 289	276 246	97 934	44 279	55 528	178 312	2 464	10	5
1542	Nonresidential buildings, n.e.c.	141	2 204	63 380	500 716	205 096	114 495	(D)	295 620	3 629	5	4
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	56	922	24 421	120 365	96 944	74 097	(D)	23 421	6 843	7	6
162	Heavy construction, except highway: Bridge, tunnel, and elevated											
1622	highway construction	*7	87	3 039	16 094	12 271	7 264	(D)	*3 823	—	18	13
1623	Water, sewer, and utility lines	43	801	17 587	75 122	66 827	43 581	23 771	8 295	3 050	8	7
1629	Heavy construction, n.e.c.	45	537	14 739	64 374	47 065	32 720	15 511	17 309	932	9	7
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	354	2 194	49 708	202 856	175 482	98 205	82 342	27 374	3 796	5	5
1721	Painting and paper hanging	221	810	14 553	37 942	36 109	28 969	7 207	1 833	1 246	9	6
1731	Electrical work	333	2 207	54 808	159 162	156 139	99 647	58 629	3 023	2 541	6	4
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	141	1 006	23 802	78 007	75 419	51 626	23 880	2 589	1 555	7	7
1742	Plastering, drywall, and insulation work	128	1 434	42 931	104 701	100 370	67 600	(D)	4 331	1 428	6	7
1743	Terrazzo, tile, marble, and mosaic work	30	107	2 424	8 103	7 954	4 790	(D)	*149	(D)	11	16
175	Carpentry and floor work:											
1751	Carpentry	309	1 235	22 204	98 228	86 350	54 470	34 303	11 879	2 066	8	11
1752	Floor laying and other floorwork	55	268	5 459	27 325	26 361	14 511	11 954	*964	*251	17	20
1761	Roofing, siding, and sheet metal work	172	1 082	21 117	68 990	64 942	38 671	(D)	*4 048	1 788	8	6
1771	Concrete work	138	923	18 435	55 282	52 815	40 381	(D)	2 467	2 155	7	8
1781	Water well drilling	14	67	1 635	6 740	(D)	4 538	2 186	(D)	467	1	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	17	166	4 358	19 877	19 706	18 538	(D)	171	197	11	5
1793	Glass and glazing work	23	251	5 179	18 527	18 107	9 704	8 824	420	409	4	2
1794	Excavation work	116	597	14 183	56 361	53 057	43 986	11 971	3 304	6 686	9	9
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c.	13	133	4 253	15 604	15 038	10 089	(D)	566	(D)	16	13
1799	Special trade contractors, n.e.c.	178	986	17 827	64 163	61 702	38 462	25 275	2 461	882	13	25
6552	Land subdividers and developers, n.e.c.	46	*253	*4 726	21 532	*11 815	*9 032	4 174	9 718	439	50	42
	FALL RIVER, MA-RI PMSA											
	Construction industries and land subdividers and developers	396	2 617	45 550	178 233	149 824	95 861	59 184	28 409	5 327	7	5
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	82	526	5 797	28 112	21 884	14 581	9 825	6 228	856	34	24
1522	Other residential buildings	*7	*52	*858	*5 684	*2 940	*2 218	(D)	*2 743	(D)	46	50
1531	Operative builders	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1542	Nonresidential buildings, n.e.c.	15	144	4 224	16 453	8 553	5 211	(D)	7 900	115	17	14

Table 12. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	FALL RIVER, MA-RI PMSA—Con.											
	Construction Industries and land subdividers and developers—Con.											
15,16, 17 16	Construction Industries—Con.											
	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	6	105	2 637	11 110	(D)	6 456	3 286	(D)	*909	38	(D)
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	-	-	-	-	-	-	-	-	-	-	-
1623	Water, sewer, and utility lines-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1629	Heavy construction, n.e.c.-----	4	(D)	(D)	1 078	(D)	846	433	(D)	-	(D)	(D)
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	38	213	4 940	18 255	17 067	8 859	9 238	1 189	*282	6	11
1721	Painting and paper hanging-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1731	Electrical work-----	39	293	5 470	18 608	(D)	11 404	6 745	(D)	412	17	(D)
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	17	39	436	2 026	1 941	1 186	755	*85	*57	19	15
1742	Plastering, drywall, and insulation work-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1743	Terrazzo, tile, marble, and mosaic work-----	-	-	-	-	-	-	-	-	-	-	-
175 1751 1752	Carpentry and floor work: Carpentry----- Floor laying and other floorwork----	46 (S)	150 (S)	2 303 (S)	8 375 (S)	7 054 (S)	4 337 (S)	3 079 (S)	1 321 (S)	(S) (S)	28 (S)	24 (S)
1761	Roofing, siding, and sheet metal work-----	21	123	1 555	7 562	7 032	4 651	(D)	*531	282	12	22
1771	Concrete work-----	12	259	4 210	9 173	8 986	8 139	(D)	187	363	3	5
1781	Water well drilling-----	3	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1793	Glass and glazing work-----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1794	Excavation work-----	11	37	731	2 030	1 964	1 385	587	66	*77	12	19
1795	Wrecking and demolition work-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.-----	4	10	292	2 022	(D)	1 153	650	(D)	(D)	(W)	(D)
1799	Special trade contractors, n.e.c.-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
6552	Land subdividers and developers, n.e.c.-----	(S)	(S)	*478	*1 858	(D)	(D)	*821	(D)	*48	(S)	(D)
	PAWTUCKET-WOONSOCKET- ATTLEBORO, RI-MA PMSA											
	Construction Industries and land subdividers and developers-----	996	8 370	141 829	878 548	524 205	332 992	199 847	154 343	13 581	3	3
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings-----	*16	147	3 377	40 883	(D)	12 873	8 583	(D)	(D)	4	(D)
1531	Operative builders-----	74	336	6 929	59 272	39 849	15 592	24 746	19 424	*645	25	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	11	161	3 668	22 824	13 524	7 026	(D)	9 299	419	22	10
1542	Nonresidential buildings, n.e.c.-----	47	510	13 201	90 610	47 513	31 289	(D)	43 097	869	8	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	15	392	10 556	51 062	(D)	26 371	10 692	(D)	1 344	1	(D)
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	9	136	3 325	15 331	13 841	10 645	(D)	*1 490	683	11	5
1629	Heavy construction, n.e.c.-----	14	230	7 096	33 284	(D)	14 867	7 991	(D)	731	12	(D)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	PAWTUCKET-WOONSOCKET- ATTLEBORO, RI-MA PMSA— Con.											
	Construction industries and land subdividers and developers—Con. Construction industries—Con.											
15,16, 17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	109	527	10 600	42 753	40 290	24 184	16 704	2 463	*808	13	13
1721	Painting and paper hanging	65	220	4 200	11 614	10 889	*8 399	2 551	725	*390	20	12
1731	Electrical work	92	351	7 269	22 058	21 511	12 826	8 718	*547	746	19	20
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	28	488	14 659	(D)	44 088	30 883	(D)	(D)	833	6	3
1742	Plastering, drywall, and insulation work	45	362	7 019	22 046	21 128	13 217	(D)	918	419	19	20
1743	Terrazzo, tile, marble, and mosaic work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:											
1751	Carpentry	82	437	8 575	44 999	40 736	24 372	16 760	4 263	592	9	15
1752	Floor laying and other floorwork	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	73	412	8 582	31 357	28 562	15 616	(D)	*2 795	737	13	9
1771	Concrete work	51	201	3 732	12 196	11 096	7 660	3 505	1 099	361	14	16
1781	Water well drilling	8	57	1 452	5 956	(D)	4 096	1 844	(D)	441	1	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	5	79	2 161	(D)	(D)	(D)	633	(D)	122	(W)	(D)
1793	Glass and glazing work	6	79	1 683	(D)	(D)	3 710	3 154	(D)	(D)	(W)	(D)
1794	Excavation work	29	176	4 599	20 364	18 886	16 083	4 577	1 477	1 392	13	7
1795	Wrecking and demolition work	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. ..	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1799	Special trade contractors, n.e.c.	44	269	4 565	15 644	14 344	10 572	5 220	*1 300	220	23	19
6552	Land subdividers and developers, n.e.c.	10	32	899	8 474	*3 287	*3 283	*929	*5 187	(D)	29	45
	PROVIDENCE, RI PMSA											
	Construction industries and land subdividers and developers	2 017	14 153	341 372	1 716 988	1 111 263	666 442	465 863	605 726	31 313	2	2
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1522	Other residential buildings	31	224	5 739	56 521	13 844	6 453	7 468	42 678	270	20	18
1531	Operative builders	94	545	13 172	112 607	58 933	21 439	37 603	53 674	*1 153	19	28
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	35	822	23 758	250 259	81 889	35 818	47 570	168 370	2 028	11	6
1542	Nonresidential buildings, n.e.c.	79	1 550	45 955	393 654	149 031	77 994	(D)	244 623	2 644	7	6
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	35	425	11 229	58 193	50 279	41 270	(D)	7 914	4 590	12	10
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	*6	*28	*1 269	*6 094	3 931	2 674	(D)	(S)	-	57	40
1623	Water, sewer, and utility lines	28	604	12 876	53 762	47 746	30 501	17 560	6 017	1 969	8	7
1629	Heavy construction, n.e.c.	27	284	7 067	30 012	23 926	17 006	7 087	6 086	201	13	13

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	PROVIDENCE, RI PMSA—Con.											
	Construction industries and land subdividers and developers—Con.											
15,16, 17	Construction Industries—Con.											
	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	208	1 454	34 169	141 848	118 125	65 163	56 399	23 723	2 706	6	5
1721	Painting and paper hanging	148	548	9 644	24 505	23 432	19 234	4 199	1 073	766	11	7
1731	Electrical work	202	1 564	42 068	118 498	116 511	75 417	43 166	1 985	1 384	6	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1742	Plastering, drywall, and insulation work	80	991	34 251	78 037	74 739	51 428	(D)	3 297	870	6	7
1743	Terrazzo, tile, marble, and mosaic work	28	96	2 210	7 474	7 330	4 443	(D)	*144	100	12	17
175	Carpentry and floor work:											
1751	Carpentry	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1752	Floor laying and other floorwork	25	115	2 944	14 304	14 187	7 667	(D)	117	-	9	3
1761	Roofing, siding, and sheet metal work	78	548	10 980	30 071	29 348	18 403	(D)	723	769	14	11
1771	Concrete work	75	464	10 493	33 913	32 733	24 582	(D)	*1 181	1 432	12	13
1781	Water well drilling	3	(S)	(D)	(S)	(S)	(S)	(S)	(S)	(D)	(S)	(S)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	*11	85	2 181	5 280	5 115	4 586	(D)	165	(D)	21	17
1793	Glass and glazing work	14	134	2 767	8 158	8 053	4 723	3 751	105	188	7	4
1794	Excavation work	76	384	8 853	33 967	32 207	26 519	(D)	1 761	*5 217	13	14
1795	Wrecking and demolition work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1796	Installing building equipment, n.e.c. ..	8	115	3 884	13 141	12 829	8 748	(D)	312	(D)	19	15
1799	Special trade contractors, n.e.c.	113	563	11 192	43 559	42 714	24 296	*18 974	845	538	17	35
6552	Land subdividers and developers, n.e.c.	27	*192	*3 350	*11 201	*7 420	*5 462	*2 424	*3 781	95	64	62

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Vermont

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--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Vermont. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 8,678 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$1.8 billion in total value of business done.

Most of the 8,678 construction establishments were small. Of the total, 6,039 were nonemployers, and over half of the employer establishments had less than 5 employees. The 905 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 67 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$1.53 billion on total dollar value of business done. Of this amount, \$1.48 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$382 million, leaving net value of construction work of \$1.1 billion. In addition, these establishments paid out \$536 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$634 million. (See Introduction and appendices for explanation of terms.)

There were 2,639 establishments with total employment averaging 16,630 during the year. Total payroll for 1987 was \$307 million. Total hours worked by construction workers during the year were 22.6 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.



Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 6,039 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$278 million. Most of these establishments, about 75 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987 
1982 

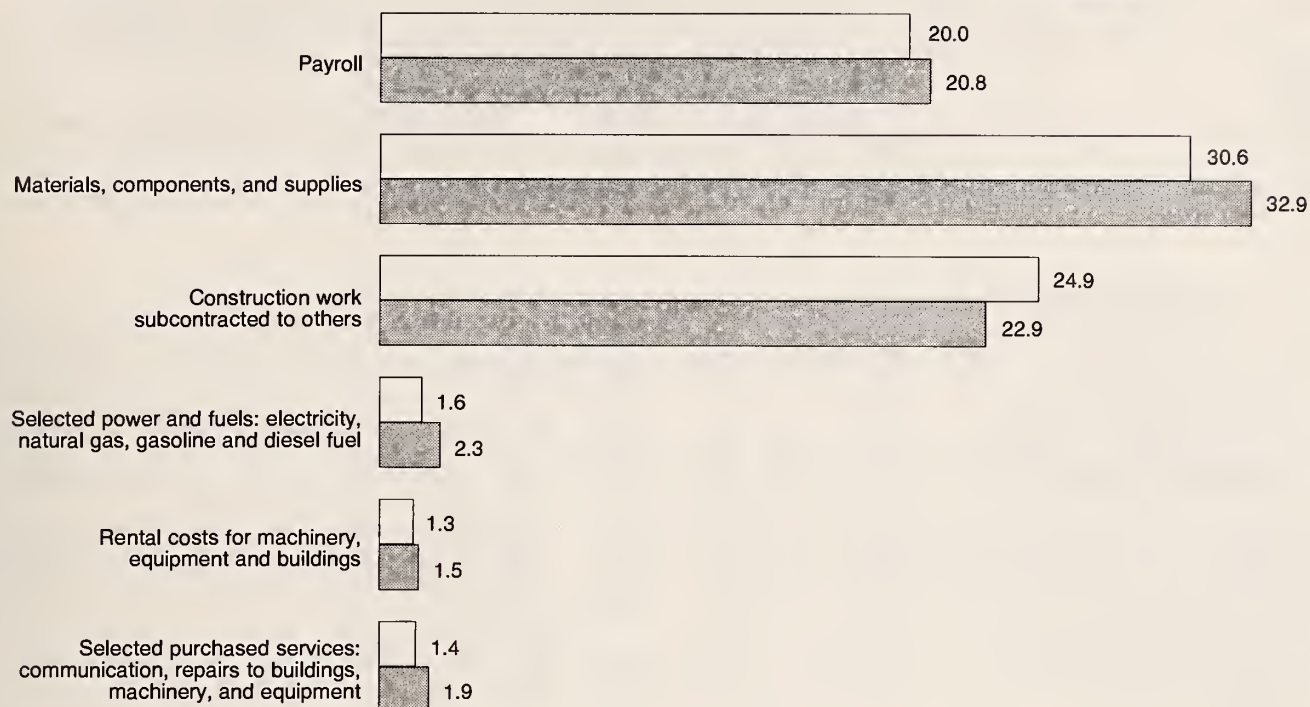




Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987 
1982 

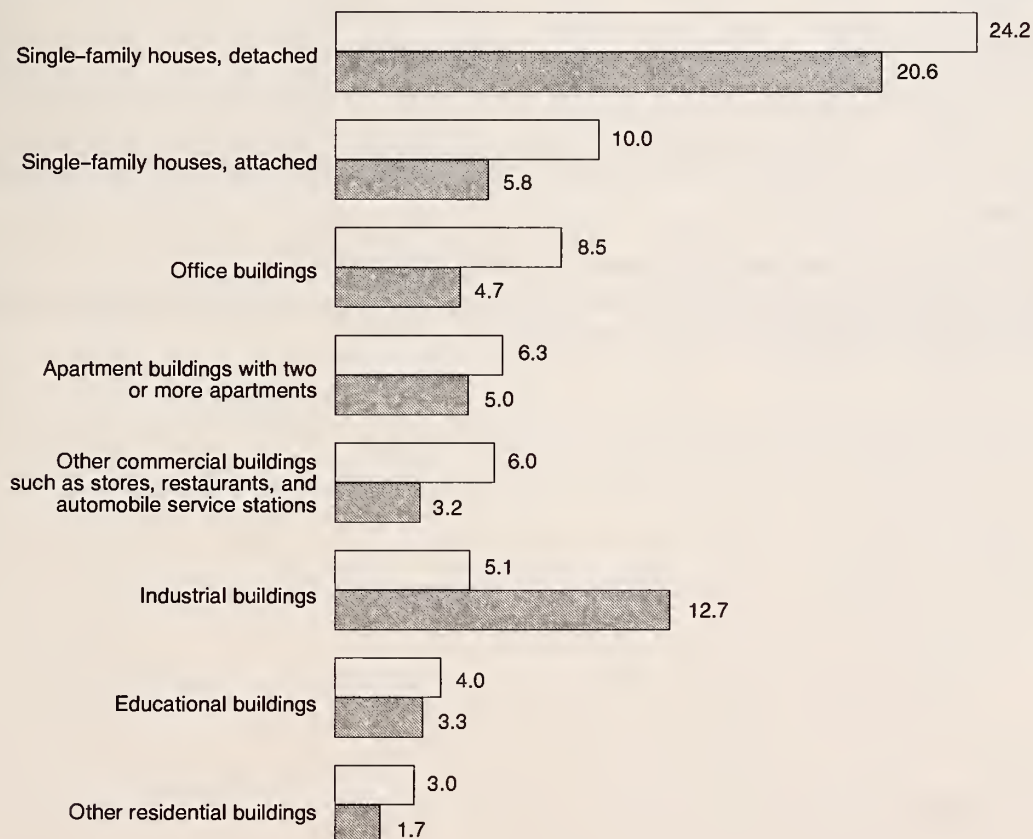


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		Number				Number			Number					
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction industries and land subdividers and developers -----	8 678	6 737	16 630	1 813 246	6 039	5 935	278 253	2 639	802	16 630	1 534 993	2	4
15, 16, 17	Construction industries -----	8 471	6 605	16 304	1 735 357	5 871	5 805	225 512	2 600	800	16 304	1 509 845	2	2
15	Building construction—General contractors and operative builders ----	2 254	1 478	7 059	941 065	1 252	1 182	87 313	1 002	296	7 059	853 752	3	6
16	Heavy construction other than building construction— contractors-----	215	94	1 477	129 474	76	70	3 860	139	24	1 477	125 614	6	4
17	Special trade contractors -----	6 002	5 033	7 768	664 819	4 543	4 553	134 340	1 459	480	7 768	530 479	3	4
1711	Plumbing, heating, and air-conditioning --	653	424	1 710	154 867	337	339	19 242	316	85	1 710	135 625	6	7
1731	Electrical work-----	534	345	1 056	79 310	332	328	12 722	202	17	1 056	66 588	7	8
6552	Land subdividers and developers, n.e.c.²-----	200	130	316	77 884	168	130	52 741	32	-	316	25 143	8	12
	1982													
	Construction industries and land subdividers and developers -----	5 403	4 405	9 795	746 669	3 620	3 593	103 979	1 783	812	9 795	642 690	3	3
15, 16, 17	Construction industries -----	5 318	4 339	(D)	(D)	3 547	3 534	89 882	1 771	805	(D)	(D)	(D)	(D)
15	Building construction—General contractors and operative builders ----	1 289	923	3 371	270 272	681	670	33 620	608	253	3 371	236 652	6	6
16	Heavy construction other than building construction— contractors-----	252	193	(D)	(D)	171	172	5 783	81	21	(D)	(D)	(D)	(D)
17	Special trade contractors -----	3 777	3 223	4 659	268 678	2 695	2 692	50 479	1 082	531	4 659	218 199	5	5
1711	Plumbing, heating, and air-conditioning --	378	280	827	(D)	207	200	5 896	171	80	827	(D)	10	(D)
1731	Electrical work-----	399	302	749	41 400	252	249	5 874	147	53	749	35 526	12	11
6552	Land subdividers and developers, n.e.c.²-----	81	65	(D)	(D)	73	59	14 097	*8	(S)	(D)	(D)	(D)	(D)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

(Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes)

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	8 678	6 737	16 630	1 813 248	8 039	5 935	278 253	2 639	802	16 630	1 534 993	2	4
\$10,000,000 or more	19	13	2 338	416 527	-	-	-	19	*13	2 338	416 527	1	12
\$5,000,000 to \$9,999,999	25	-	1 389	167 947	-	-	-	25	-	1 389	167 947	3	9
\$2,500,000 to \$4,999,999	65	2	1 915	221 890	4	2	10 920	61	-	1 915	210 970	4	8
\$1,000,000 to \$2,499,999	153	22	2 504	235 002	11	8	15 293	142	*14	2 504	219 709	6	8
\$500,000 to \$999,999	301	84	2 388	203 733	49	31	33 374	252	53	2 388	170 359	9	10
\$250,000 to \$499,999	575	210	2 254	198 955	110	101	38 060	465	109	2 254	160 895	9	9
\$100,000 to \$249,999	1 336	775	2 865	213 956	449	442	66 837	887	333	2 865	147 119	8	7
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	658	639	46 137	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	934	918	33 229	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000	(S)	(S)	(S)	(S)	3 824	3 794	34 404	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 489	1 477	24 512	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	889	885	6 461	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	645	644	2 371	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	801	788	1 060	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	5 403	4 405	9 795	746 669	3 620	3 593	103 979	1 783	812	9 795	642 690	3	3
\$10,000,000 or more	2	-	(D)	(D)	-	-	-	2	-	(D)	(D)	(D)	(D)
\$5,000,000 to \$9,999,999	11	-	1 579	(D)	1	-	(D)	10	-	1 579	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	25	-	846	(D)	2	-	(D)	23	-	846	(D)	(W)	(D)
\$1,000,000 to \$2,499,999	84	2	1 674	(D)	1	2	(D)	83	-	1 674	(D)	6	(D)
\$500,000 to \$999,999	110	22	1 093	476 306	7	10	19 209	103	*12	1 093	457 097	13	3
\$250,000 to \$499,999	229	76	1 423	80 090	22	24	7 652	207	52	1 423	72 438	12	12
\$100,000 to \$249,999	604	388	1 668	91 341	128	127	18 062	476	261	1 668	73 279	10	9
\$50,000 to \$99,999	674	510	886	47 215	273	284	18 759	401	226	886	28 456	11	9
\$25,000 to \$49,999	742	638	329	28 686	521	518	18 204	221	120	329	8 482	14	12
Less than \$25,000	2 921	2 769	296	25 030	2 665	2 628	22 093	256	141	296	2 937	11	11
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	978	962	15 269	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	684	676	4 686	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	620	614	1 755	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	383	376	383	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	2 639	16 630	12 859	306 737	223 511	22 607	1 479 576	1 097 584
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	743	3 804	3 092	62 394	47 409	5 386	319 208	224 617
1522	Other residential buildings-----	71	409	306	6 810	4 678	335	45 988	28 679
1531	Operative builders -----	81	336	(D)	8 643	3 885	313	(D)	62 151
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	11	278	219	6 788	4 310	544	40 920	19 922
1542	Nonresidential buildings, n.e.c.-----	96	2 232	1 346	50 660	33 181	2 351	306 608	171 410
16	Heavy construction other than building construction— contractors:								
1611	Highway and street construction -----	22	308	260	7 214	5 165	513	32 411	26 419
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	*11	305	268	6 569	5 393	428	30 722	25 670
1623	Water, sewer, and utility lines-----	39	379	315	7 487	5 996	679	27 121	23 773
1629	Heavy construction, n.e.c.-----	67	485	394	8 373	6 234	676	31 185	27 779
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	316	1 710	1 340	31 936	23 487	2 328	129 280	116 961
1721	Painting and paper hanging -----	115	622	538	7 568	6 520	849	18 538	17 604
1731	Electrical work -----	202	1 056	809	20 577	15 177	1 521	65 946	65 549
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	83	431	359	7 646	6 084	609	22 601	21 198
1742	Plastering, drywall, and insulation work -----	55	459	380	7 659	6 119	719	24 408	22 641
1743	Terrazzo, tile, marble, and mosaic work-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry -----	224	766	670	10 440	9 275	1 179	52 509	40 469
1752	Floor laying and other floor work-----	*30	(D)	46	(D)	513	78	2 805	2 590
1761	Roofing, siding, and sheet metal work -----	67	638	543	11 521	9 233	978	40 984	38 966
1771	Concrete work -----	91	479	411	7 410	5 971	707	33 392	30 291
1781	Water well drilling -----	13	57	43	1 635	1 216	72	6 210	6 173
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	10	126	98	2 709	2 056	151	9 174	9 120
1793	Glass and glazing work -----	10	99	64	2 607	1 424	119	14 592	(D)
1794	Excavation work -----	168	870	732	16 420	13 007	1 288	67 003	64 217
1795	Wrecking and demolition work -----	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c.-----	*17	*68	*53	*1 462	*1 304	*127	6 440	6 066
1799	Special trade contractors, n.e.c.-----	56	333	264	5 429	3 972	448	21 464	20 615
6552	Land subdividers and developers, n.e.c.-----	32	316	102	6 178	(D)	(D)	14 171	11 809

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts†	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
634 232	495 052	381 992	19 844	31 236	208 431	9 795	622 437	266 317	2	2	10	15, 16, 17
												15
120 967	109 751	94 591	2 313	5 915	25 618	1 785	98 430	37 118	5	6	15	152
13 201	15 599	17 309	290	396	2 729	280	25 540	8 221	17	26	5	1521
(D)	22 817	(D)	333	(S)	*4 574	207	18 617	6 951	20	28	(S)	1531
10 680	9 827	20 998	269	374	4 554	573	54 608	16 344	12	15	33	154
77 046	95 714	135 198	4 446	3 031	25 273	526	34 353	13 082	5	3	10	1541
												1542
												16
17 772	9 519	5 992	2 001	827	9 168	191	12 494	6 467	11	7	(W)	1611
16 245	9 744	5 052	849	1 103	7 135	188	12 774	6 185	7	4	13	162
17 261	7 450	3 348	974	1 302	10 469	356	19 296	11 593	16	9	32	1622
21 519	8 305	3 405	1 062	1 728	12 774	(D)	(D)	(D)	11	12	24	1623
												1629
												17
67 175	56 130	12 319	1 445	2 298	10 662	827	44 617	20 981	6	6	34	1711
13 543	4 559	933	113	*351	2 236	(D)	6 248	4 584	16	16	43	1721
36 384	29 806	397	635	1 264	9 974	749	34 524	18 141	7	8	23	1731
13 982	(D)	1 402	531	895	*4 272	230	6 858	4 486	15	20	32	174
14 422	9 362	*1 766	240	591	1 772	188	10 082	5 456	14	14	28	1741
(D)	(D)	(D)	(D)	(D)	(D)	(S)	(S)	(S)	(D)	(D)	(D)	1742
												1743
20 530	20 013	12 040	228	796	7 189	431	16 920	8 000	14	17	31	175
1 440	1 150	215	(D)	(D)	315	(D)	*525	*327	(D)	3	(D)	1751
												1752
23 210	16 481	2 017	532	598	7 003	479	22 892	12 274	6	4	21	1761
16 126	(D)	3 101	377	638	4 959	(D)	(D)	4 550	15	14	22	1771
4 526	(D)	37	32	(D)	4 789	*73	*2 997	*1 963	8	12	(D)	1781
6 579	2 899	(S)	198	200	4 753	(D)	(D)	(D)	16	17	5	179
5 638	9 989	(D)	378	(D)	675	47	2 396	1 259	(W)	(D)	(D)	1791
47 338	18 032	2 785	1 984	6 924	38 778	723	34 807	26 101	12	12	38	1793
						(D)	(D)	(D)				1794
4 013	2 053	*374	(S)	(S)	(S)	(D)	(D)	(D)				1795
12 552	8 910	848	240	*769	2 837	297	13 911	8 194	56	31	(S)	1796
									16	15	62	1799
12 385	3 593	2 362	60	315	5 105	(D)	(D)	(D)	8	14	9	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	2 639	1 783	1 738	1 811	2	4	6	6
Proprietors and working partners.....	802	812	1 217	1 309	8	7	9	8
All employees**	16 630	9 795	8 628	9 334	2	3	4	5
Construction workers:								
March.....	10 967	5 823	5 216	6 092	2	3	4	6
May	12 953	7 810	7 959	7 488	2	4	4	5
August	14 640	9 369	8 652	9 706	2	3	4	5
November	12 877	8 527	7 875	8 710	2	3	4	5
Average	12 859	8 082	7 432	8 187	2	3	4	5
Other employees:								
March.....	3 566	1 705	1 083	1 097	2	5	6	5
May	3 727	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	3 952	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	3 839	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	3 771	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	4 773	2 550	(NA)	(NA)	3	4	(NA)	(NA)
April to June	5 715	3 381	(NA)	(NA)	3	4	(NA)	(NA)
July to September	6 426	4 189	(NA)	(NA)	3	4	(NA)	(NA)
October to December	5 692	3 901	(NA)	(NA)	3	4	(NA)	(NA)
Total hours worked	22 607	14 023	(NA)	(NA)	3	3	(NA)	(NA)
Payroll, all employees	306 737	133 909	79 474	71 086	2	2	3	4
Payroll, construction workers	223 511	102 619	65 578	59 691	2	3	3	4
Payroll, other employees	83 225	31 290	13 897	11 395	3	3	4	4
First quarter payroll, all employees	65 407	26 038	13 856	(NA)	2	3	3	(NA)
Employer costs for fringe benefits, all employees	60 156	25 595	12 462	(NA)	4	3	3	(NA)
Legally required expenditures	44 858	18 057	9 127	(NA)	4	4	3	(NA)
Voluntary expenditures	15 297	7 538	3 335	(NA)	3	4	4	(NA)
Dollar value of business done	1 534 993	642 690	346 649	276 236	4	3	3	4
Value of construction work ¹	1 479 576	622 437	333 568	260 999	3	3	3	4
Value of construction work subcontracted in from others	238 492	93 629	58 649	43 992	6	6	7	6
Land receipts ²	23 716	(D)	(NA)	(NA)	27	(D)	(NA)	(NA)
Other business receipts	31 700	(D)	13 081	15 237	7	(D)	7	14
Net value of construction†	1 097 584	475 271	272 120	215 881	2	3	3	4
Value added††	634 232	266 317	147 521	125 097	3	3	3	5
Selected costs	877 044	373 167	195 754	147 432	5	3	3	4
Materials, components, and supplies ³	470 304	211 149	126 593	102 314	3	3	4	5
Construction work subcontracted to others	381 992	147 165	61 449	45 118	9	3	3	5
Selected power, fuels, and lubricants	24 748	14 852	7 712	(NA)	5	6	5	(NA)
Electricity	3 170	2 038	845	(NA)	4	7	8	(NA)
Natural gas	337	271	144	(NA)	10	12	32	(NA)
Gasoline and diesel fuel	19 641	11 518	5 879	(NA)	7	6	5	(NA)
On highway use	15 402	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
Off highway use	4 239	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Other, including lubricating oils and greases.....	1 599	1 024	845	(NA)	4	10	10	(NA)
Rental cost for machinery, equipment, and buildings	19 844	9 926	5 903	(NA)	4	6	2	(NA)
For machinery and equipment	13 849	7 827	4 999	3 337	4	7	2	5
For buildings	5 995	2 098	904	(NA)	6	8	7	(NA)
Selected purchased services	21 506	12 044	7 979	(NA)	4	5	4	(NA)
Communication services	5 839	3 375	2 302	(NA)	4	5	4	(NA)
Repairs to buildings and other structures	1 731	503	534	(NA)	9	11	12	(NA)
Repairs to machinery and equipment	13 935	8 164	5 143	(NA)	5	7	5	(NA)
Ownership of construction projects:								
Value of construction work	1 479 576	622 437	333 568	260 999	3	3	3	4
Government owned	233 559	133 845	76 708	75 278	4	11	3	3
Federal	40 830	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
State and local	192 729	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Privately owned	1 246 016	488 591	256 861	185 721	6	4	4	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	192 345	119 383	5	5
Capital expenditures, other than land -----	31 236	14 898	10	7
New -----	25 914	9 996	11	8
Used -----	5 322	4 902	12	11
Retirements and disposition of depreciable assets -----	15 151	4 217	25	7
End-of-year gross book value of depreciable assets -----	208 431	130 063	5	5
Depreciation charges during year -----	28 183	17 054	7	6
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	32 523	21 083	7	8
Capital expenditures, other than land -----	4 691	2 078	20	30
New buildings and other structures -----	3 497	1 363	25	40
Used buildings and other structures -----	1 193	715	26	12
Retirements and disposition of depreciable assets -----	320	472	8	12
End-of-year gross book value of depreciable assets -----	36 895	22 689	7	8
Depreciation charges during year -----	2 508	1 798	11	14
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	159 821	98 299	6	6
Capital expenditures, other than land -----	26 545	12 819	11	7
New machinery and equipment, including automobiles and trucks -----	22 416	8 632	13	6
New automobiles and trucks, intended primarily for highway use -----	12 062	4 007	19	8
Used machinery and equipment, including automobiles and trucks -----	4 128	4 187	12	13
Retirements and disposition of depreciable assets -----	14 831	3 745	25	8
End-of-year gross book value of depreciable assets -----	171 535	107 374	6	5
Depreciation charges during year -----	25 675	15 256	7	6

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	2 639	2
Value of construction work	1 479 576	3
Establishments with inventories:		
Number	922	7
Value of construction work	907 584	8
Inventories¹:		
End of 1987, materials and supplies	18 718	10
End of 1986, materials and supplies	15 627	9
Establishments with no inventories:		
Number	1 305	5
Value of construction work	368 187	7
Establishments not reporting:		
Number	412	12
Value of construction work	203 805	8

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	2 639	(S)	556	200	117	20	11	—	—	1
All employees**	16 630	(S)	3 548	2 661	3 403	1 272	2 416	—	—	(D)
Payroll, all employees	306 737	(S)	59 007	45 249	74 837	26 169	55 331	—	—	(D)
Construction worker hours (thousands)	22 607	(S)	5 079	3 874	5 023	1 797	2 507	—	—	(D)
Dollar value business done	1 534 993	(S)	227 241	217 290	339 851	110 436	318 342	—	—	(D)
Value of construction work ¹	1 479 576	(S)	220 764	212 443	325 332	419 639	(D)	—	—	(D)
Net value of construction work†	1 097 584	(S)	193 947	164 822	244 820	80 213	181 121	—	—	(D)
Value added††	634 232	(S)	116 805	89 236	150 943	132 333	(D)	—	—	(D)
Cost of materials, components, supplies, and fuels	495 052	(S)	81 453	79 250	137 781	(D)	102 826	—	—	(D)
Cost of construction work subcontracted to others	381 992	(S)	26 816	47 621	80 511	158 305	(D)	—	—	(D)
Rental cost for machinery, equipment, and buildings	19 844	(S)	3 914	2 378	4 849	2 819	4 094	—	—	(D)
Capital expenditures, other than land	31 236	(S)	8 358	4 410	7 966	2 202	2 491	—	—	(D)
End-of-year gross book value of depreciable assets	208 431	(S)	46 154	24 534	47 878	18 310	27 458	—	—	(D)
1982										
All employees**	9 795	2 568	2 032	1 485	1 943	578	1 188	—	(D)	—
Value of construction work ¹	622 437	114 360	96 636	81 700	136 352	44 188	149 200	—	(D)	—
Value added††	266 317	55 630	49 655	40 307	59 090	61 634	(D)	—	(D)	—
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	(S)	8	8	4	(W)	(W)	—	—	(D)
Net value of construction work†	2	(S)	8	9	4	(W)	(W)	—	—	(D)
Capital expenditures, other than land	10	(S)	30	34	7	1	(W)	—	—	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	2 639	(S)	(S)	(S)	887	465	252	142	61	25	19
All employees**	16 630	(S)	(S)	(S)	2 865	2 254	2 388	2 504	1 915	1 389	2 338
Payroll, all employees	306 737	(S)	(S)	(S)	38 877	35 610	40 546	51 178	42 149	31 685	56 964
Construction worker hours (thousands)	22 607	(S)	(S)	(S)	3 703	3 312	3 624	3 883	2 687	1 925	2 270
Dollar value of business done	1 534 993	(S)	(S)	(S)	147 119	160 895	170 359	219 709	210 970	167 947	416 527
Value of construction work ¹	1 479 576	(S)	(S)	(S)	144 459	152 630	164 253	210 436	201 561	166 311	398 827
Net value of construction work†	1 097 584	(S)	(S)	(S)	133 793	130 939	144 029	169 554	153 493	127 175	200 283
Value added††	634 232	(S)	(S)	(S)	82 111	78 456	88 259	102 259	98 601	66 131	94 888
Cost of materials, components, supplies, and fuels	495 052	(S)	(S)	(S)	52 948	58 603	60 030	72 744	60 788	62 680	112 146
Cost of construction work subcontracted to others	381 992	(S)	(S)	(S)	10 666	21 691	20 223	40 882	48 067	39 135	198 544
Rental cost for machinery, equipment, and buildings	19 844	(S)	(S)	(S)	1 414	1 570	2 948	2 803	2 470	3 540	4 777
Capital expenditures, other than land	31 236	(S)	(S)	(S)	3 653	3 674	7 626	5 240	4 338	2 008	3 051
End-of-year gross book value of depreciable assets	208 431	(S)	(S)	(S)	21 203	29 639	36 595	36 533	26 595	21 995	25 637
1982											
All employees**	9 795	296	329	886	1 668	1 423	1 093	1 674	846	1 579	(D)
Value of construction work ¹	622 437	2 890	8 399	28 003	70 786	69 237	63 964	112 819	68 310	198 028	(D)
Value added††	266 317	1 610	4 228	14 902	38 459	33 773	32 034	51 505	30 560	59 244	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	(S)	8	9	9	6	4	3	1
Net value of construction work†	2	(S)	(S)	(S)	7	9	10	8	9	8	5
Capital expenditures, other than land	10	(S)	(S)	(S)	22	24	35	17	12	2	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	1 479 576	998 648	279 516	105 240	3	5	3	5
Building construction	1 147 181	807 782	243 960	78 749	4	6	4	6
Single-family houses.....	505 997	379 370	85 777	40 848	5	7	7	8
Single-family houses, detached.....	358 755	244 214	78 248	36 293	5	7	7	8
Single-family houses, attached.....	147 241	135 156	7 529	4 555	12	13	10	18
Apartment buildings with two or more apartments.....	93 713	82 329	5 529	5 854	44	50	17	17
Other residential buildings, including hotels and motels.....	73 188	54 997	13 609	4 581	10	12	18	23
Hotels and motels.....	28 374	20 252	5 437	2 684	7	8	8	27
Other residential buildings, excluding hotels and motels.....	44 814	34 745	8 171	1 897	16	19	29	39
Office buildings.....	125 331	88 789	32 451	4 091	4	3	11	12
Other commercial buildings such as stores, restaurants, and automobile service stations.....	89 361	51 665	29 336	8 359	6	7	7	10
Industrial buildings and warehouses.....	107 193	77 684	21 743	7 765	4	4	5	9
Industrial buildings.....	75 998	51 979	17 653	6 365	4	5	5	10
Warehouses.....	31 194	25 704	4 090	1 399	5	6	5	7
Educational buildings.....	59 414	34 307	22 556	2 550	6	6	13	14
Hospitals and institutional buildings.....	48 550	22 644	24 811	1 094	6	8	8	19
Other nonresidential buildings.....	27 744	15 997	8 148	3 608	19	30	17	12
Land development for buildings.....	16 690	(NA)	(NA)	(NA)	30	(NA)	(NA)	(NA)
Nonbuilding construction	252 915	190 866	35 556	26 492	3	3	6	8
Highways, streets, and related facilities.....	39 964	23 704	12 241	4 018	6	6	6	19
Bridges and elevated highways.....	28 072	22 802	1 760	*3 509	5	(W)	(W)	43
Sewers, water mains, and related facilities.....	45 837	35 280	5 738	4 818	6	4	14	13
Sewers, sewer lines, and related facilities.....	33 013	24 738	4 941	3 333	6	5	15	10
Water mains and related facilities.....	12 823	10 541	(D)	(D)	8	6	(D)	(D)
Power plants.....	22 380	19 418	(D)	(D)	3	4	(D)	(D)
Other nonbuilding construction.....	116 662	89 662	14 699	12 304	21	20	39	34
Construction work, n.s.k.	79 479	(NA)	(NA)	(NA)	11	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	622 437	504 327	(NA)	118 109	3	3	(NA)	5
Building construction	385 926	306 084	(NA)	79 842	4	3	(NA)	4
Single-family houses.....	164 368	135 238	(NA)	29 129	6	7	(NA)	8
Single-family houses, detached.....	128 000	101 107	(NA)	26 892	7	8	(NA)	9
Single-family houses, attached.....	36 368	34 131	(NA)	2 237	17	19	(NA)	20
Apartment buildings with two or more apartments.....	30 957	26 526	(NA)	4 431	7	8	(NA)	14
Other residential buildings, including hotels and motels.....	10 559	7 847	(NA)	2 711	9	13	(NA)	12
Office buildings.....	29 293	21 922	(NA)	7 371	10	13	(NA)	10
Other commercial buildings such as stores, restaurants, and automobile service stations.....	19 669	14 109	(NA)	5 560	9	10	(NA)	8
Industrial buildings and warehouses.....	90 174	70 899	(NA)	19 274	4	4	(NA)	5
Industrial buildings.....	79 344	62 488	(NA)	16 856	4	5	(NA)	5
Warehouses.....	10 829	8 410	(NA)	2 418	8	8	(NA)	13
Religious buildings.....	2 364	1 208	(NA)	1 156	13	20	(NA)	26
Educational buildings.....	20 486	15 448	(NA)	5 038	8	9	(NA)	14
Hospitals and institutional buildings.....	10 723	8 293	(NA)	2 430	13	12	(NA)	32
Farm buildings.....	3 103	2 153	(NA)	949	14	14	(NA)	21
Amusement, social, and recreational buildings.....	3 316	(D)	(NA)	(D)	10	(D)	(NA)	(D)
Other nonresidential buildings.....	915	(D)	(NA)	(D)	19	(D)	(NA)	(D)
Nonbuilding construction	197 273	167 321	(NA)	29 951	2	2	(NA)	9
Highways, streets, and related facilities.....	17 705	11 750	(NA)	5 954	8	8	(NA)	16
Bridges, tunnels, and elevated highways.....	14 245	13 162	(NA)	*1 083	(W)	(W)	(NA)	(W)
Power and communication transmission lines, towers, and related facilities.....	3 960	2 671	(NA)	*1 288	36	33	(NA)	43
Sewers, water mains, and related facilities.....	34 447	24 345	(NA)	10 101	9	9	(NA)	22
Sewers, sewer lines, and related facilities.....	20 248	13 582	(NA)	6 686	12	10	(NA)	26
Water mains and related facilities.....	14 198	10 763	(NA)	*3 435	16	16	(NA)	41
Other nonbuilding construction.....	126 916	115 393	(NA)	11 525	32	40	(NA)	25
Construction work, n.s.k.	39 237	30 921	(NA)	8 315	11	10	(NA)	17

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	2 639	12 859	22 607	10 967	4 773	12 953	5 715
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	743	3 092	5 386	2 634	1 152	3 014	1 300
1522	Other residential buildings -----	71	306	335	270	82	305	88
1531	Operative builders -----	81	(D)	313	(D)	(D)	195	84
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	11	219	544	193	116	205	132
1542	Nonresidential buildings, n.e.c. -----	96	1 346	2 351	1 347	601	1 389	608
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	22	260	513	128	57	337	154
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	*11	268	428	167	67	333	139
1623	Water, sewer, and utility lines -----	39	315	679	205	115	343	170
1629	Heavy construction, n.e.c. -----	67	394	676	300	120	410	182
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	316	1 340	2 328	1 272	540	1 311	586
1721	Painting and paper hanging -----	115	538	849	373	167	561	228
1731	Electrical work -----	202	809	1 521	779	364	812	380
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	83	359	609	245	102	318	150
1742	Plastering, drywall, and insulation work ----	55	380	719	388	181	402	197
1743	Terrazzo, tile, marble, and mosaic work ----	2	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:							
1751	Carpentry -----	224	670	1 179	591	255	625	267
1752	Floor laying and other floor work -----	*30	46	78	*48	*19	*48	*20
1761	Roofing, siding, and sheet metal work -----	67	543	978	497	200	539	248
1771	Concrete work -----	91	411	707	263	105	421	180
1781	Water well drilling -----	13	43	72	41	17	43	17
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	10	98	151	107	43	79	30
1793	Glass and glazing work -----	10	64	119	67	28	62	28
1794	Excavation work -----	168	732	1 288	545	229	744	311
1795	Wrecking and demolition work -----	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c. -----	*17	*53	*127	*41	*23	*42	*23
1799	Special trade contractors, n.e.c. -----	56	264	448	149	55	306	129
6552	Land subdividers and developers, n.e.c. --	32	102	(D)	99	38	(D)	(D)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
14 640	6 426	12 877	5 692	2	3	2	3	2	3	2	3	2	3	15, 16, 17
														15
3 573 306	1 530 81	3 149 343	1 403 82	6 18	8 10	6 15	8 11	6 17	8 13	6 16	9 8	6 27	8 8	152 1521 1522
196	81	(D)	(D)	20	29	21	30	21	32	22	30	21	29	1531
														154
230 1 414	140 621	247 1 236	154 519	12 6	19 8	8 5	17 8	13 5	19 7	12 7	20 9	16 7	21 9	1541 1542
														16
367	182	215	118	10	12	9	11	10	13	9	10	15	15	1611
														162 1622
350 376 460	147 211 207	222 336 407	73 182 166	8 16 11	9 27 23	3 22 7	5 34 15	9 13 13	10 26 27	13 14 12	14 23 25	2 17 9	1 27 23	1623 1629
														17
1 425	614	1 353	586	6	8	7	9	6	8	6	7	7	9	1711
669	240	549	212	16	23	18	22	19	25	16	24	17	23	1721
835	390	811	386	7	9	8	10	8	10	7	9	7	9	1731
														174
473 383 (D)	182 182 (D)	399 345 (D)	174 158 (D)	16 13 (D)	23 16 (D)	18 14 (D)	29 18 (D)	19 14 (D)	24 18 (D)	18 15 (D)	22 17 (D)	15 9 (D)	22 14 (D)	1741 1742 1743
789 58	339 25	675 33	316 13	14 25	18 28	16 41	19 51	17 41	18 45	14 26	17 29	15 23	20 30	175 1751 1752
598	285	537	244	6	11	7	9	7	11	9	15	9	15	1761
547	237	412	184	16	19	20	21	17	20	16	19	17	21	1771
47	19	44	18	5	6	6	2	5	7	5	7	5	7	1781
														179
112 67 846	42 30 385	93 63 792	34 31 362	14 (W) 12	3 (W) 18	10 (W) 12	2 (W) 19	16 (W) 12	2 (W) 18	19 (W) 12	3 (W) 17	16 (W) 14	3 (W) 19	1791 1793 1794
— *69 327	— *42 144	— *61 272	— *37 119	— 55 15	— 60 20	— 56 15	— 62 23	— 55 15	— 62 21	— 58 17	— 61 22	— 54 16	— 57 22	1795 1796 1799
(D)	(D)	100	47	5	(D)	6	7	(D)	(D)	(D)	(D)	6	5	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	6.3	18.4	1 758.1	115.1	.207	.335	.258	.013
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	5.1	16.4	1 741.9	103.2	.195	.344	.296	.007
1522	Other residential buildings	5.8	16.7	1 094.8	150.3	.148	.339	.376	.006
1531	Operative builders	4.1	25.7	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	25.3	24.4	2 484.0	186.8	.166	.240	.513	.007
1542	Nonresidential buildings, n.e.c.	23.3	22.7	1 746.7	227.8	.165	.312	.441	.015
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	14.0	23.4	1 973.1	124.7	.223	.294	.185	.062
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	*27.7	21.5	1 597.0	114.6	.214	.317	.164	.028
1623	Water, sewer, and utility lines	9.7	19.8	2 155.6	86.1	.276	.275	.123	.036
1629	Heavy construction, n.e.c.	7.2	17.3	1 715.7	79.1	.268	.266	.109	.034
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	5.4	18.7	1 737.3	96.5	.247	.434	.095	.011
1721	Painting and paper hanging	5.4	12.2	1 578.1	34.5	.408	.246	.050	.006
1731	Electrical work	5.2	19.5	1 880.1	81.5	.312	.452	.006	.010
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	5.2	17.7	1 696.4	63.0	.338	(D)	.062	.023
1742	Plastering, drywall, and insulation work	8.3	16.7	1 892.1	64.2	.314	.384	.072	.010
1743	Terrazzo, tile, marble, and mosaic work	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry	3.4	13.6	1 759.7	78.4	.199	.381	.229	.004
1752	Floor laying and other floor work	(D)	(D)	1 695.7	62.3	(D)	.410	.077	(D)
1761	Roofing, siding, and sheet metal work	9.5	18.1	1 801.1	75.5	.281	.402	.049	.013
1771	Concrete work	5.3	15.5	1 720.2	81.2	.222	(D)	.093	.011
1781	Water well drilling	4.4	28.7	1 674.4	144.4	.263	(D)	.006	.005
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	12.6	21.5	1 540.8	93.6	.295	.316	(S)	.022
1793	Glass and glazing work	9.9	26.3	1 859.4	228.0	.179	.685	(D)	.026
1794	Excavation work	5.2	18.9	1 759.6	91.5	.245	.269	.042	.030
1795	Wrecking and demolition work	—	—	—	—	—	—	—	—
1796	Installing building equipment, n.e.c.	*4.0	*21.5	*2 396.2	121.5	.227	.319	*.058	(S)
1799	Special trade contractors, n.e.c.	5.9	16.3	1 697.0	81.3	*.253	.415	.040	.011
6552	Land subdividers and developers, n.e.c.	9.9	19.5	(D)	138.9	.436	.254	.167	.004

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

APPENDIX A.

Explanation of Terms

Construction—Is composed of three broad categories:

1. **New construction**—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
2. **Additions, alterations or reconstruction**—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
3. **Maintenance and repair**—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

Number of establishments in business during year—

Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

All employees—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

Construction workers—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment

operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

Payroll—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Employer costs for fringe benefits (supplemental labor costs)—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

Legally required contributions—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

Voluntary payments—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

Value of construction work done—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

Other business receipts—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

Net value of construction work—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Selected costs—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems; etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

- all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

Rental costs for machinery, equipment, and buildings—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It

excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

Assets and depreciation—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, shop equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

Capital expenditures—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

Inventories—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale.

Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Ownership of construction projects—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

Value of construction work subcontracted from others—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (include townhouses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- **Hotels and motels**—Includes hotels, motels, and tourist cabins intended for transient accommodations.

- **Other residential buildings**—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- **Other commercial buildings, such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

Nonbuilding construction:

- **Highways, streets and related work, such as installation of guardrails, highway signs, etc.**—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Recreational facilities**—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Bridges and elevated highways**—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- **Tunnels**—Includes highway, pedestrian, and railroad tunnels.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- **Power and communication transmission lines, towers, and related facilities**—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants, and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers, and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.

- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.

APPENDIX B.

Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173	Electrical Work Special Trade Contractors
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	174	Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentry and Floor Work Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
16	HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
161	Highway and Street Construction, Except Elevated Highways	176	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street Construction	177	Concrete Work Special Trade Contractors
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Powerline Construction	178	Water Well Drilling Special Trade Contractors
1629	Heavy Construction, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	179	Miscellaneous Special Trade Contractors
171	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
172	Painting and Paper Hanging Special Trade Contractors	1794	Excavation Work Special Trade Contractors
1721	Painting and Paper Hanging Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment, Special Trade Contractors, Not Elsewhere Classified
		1799	Special Trade Contractors, Not Elsewhere Classified
		6552	LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES

APPENDIX C.

Regions, Census Divisions, and States

NORTHEAST

New England States

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Middle Atlantic States

New Jersey
New York
Pennsylvania

MIDWEST

East North Central States

Illinois
Indiana
Michigan
Ohio
Wisconsin

West North Central States

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH

South Atlantic States

Delaware
District of Columbia
Florida
Georgia
Maryland

South Atlantic States—Con.

North Carolina
South Carolina
Virginia
West Virginia

East South Central States

Alabama
Kentucky
Mississippi
Tennessee

West South Central States

Arkansas
Louisiana
Oklahoma
Texas

WEST

Mountain States

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

Pacific States

Alaska
California
Hawaii
Oregon
Washington

APPENDIX D.

Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

Abilene, TX MSA

Taylor County, TX

Akron, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA

Albany, GA MSA

Dougherty County, GA

Lee County, GA

Albany-Schenectady-Troy, NY MSA

Albany County, NY

Greene County, NY

Montgomery County, NY

Rensselaer County, NY

Saratoga County, NY

Schenectady County, NY

Albuquerque, NM MSA

Bernalillo County, NM

Alexandria, LA MSA

Rapides Parish, LA

Allentown-Bethlehem, PA-NJ MSA

Warren County, NJ

Carbon County, PA

Lehigh County, PA

Northampton County, PA

Altoona, PA MSA

Blair County, PA

Amarillo, TX MSA

Potter County, TX

Randall County, TX

Anaheim-Santa Ana, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Anchorage, AK MSA

Anchorage Borough, AK

Anderson, IN MSA

Madison County, IN

Anderson, SC MSA

Anderson County, SC

Ann Arbor, MI PMSA—see Detroit-Ann Arbor, MI CMSA

Anniston, AL MSA

Calhoun County, AL

Appleton-Oshkosh-Neenah, WI MSA

Calumet County, WI

Outagamie County, WI

Winnebago County, WI

Asheville, NC MSA

Buncombe County, NC

Athens, GA MSA

Clarke County, GA

Jackson County, GA

Madison County, GA

Oconee County, GA

Atlanta, GA MSA

Barrow County, GA

Butts County, GA

Cherokee County, GA

Clayton County, GA

Cobb County, GA

Coweta County, GA

De Kalb County, GA

Douglas County, GA

Atlanta, GA MSA—Con.

Fayette County, GA

Forsyth County, GA

Fulton County, GA

Gwinnett County, GA

Henry County, GA

Newton County, GA

Paulding County, GA

Rockdale County, GA

Spalding County, GA

Walton County, GA

Atlantic City, NJ MSA

Atlantic County, NJ

Cape May County, NJ

Augusta, GA-SC MSA

Columbia County, GA

McDuffie County, GA

Richmond County, GA

Aiken County, SC

Aurora-Elgin, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Austin, TX MSA

Hays County, TX

Travis County, TX

Williamson County, TX

Bakersfield, CA MSA

Kern County, CA

Baltimore, MD MSA

Anne Arundel County, MD

Baltimore County, MD

Carroll County, MD

Harford County, MD

Howard County, MD

Queen Anne's County, MD

Baltimore city, MD

Bangor, ME MSA

Penobscot County, ME (part)

Bangor city, ME

Brewer city, ME

Eddington town, ME

Glenburn town, ME

Hampden town, ME

Hermon town, ME

Holden town, ME

Kenduskeag town, ME

Old Town city, ME

Orono town, ME

Orrington town, ME

Penobscot Indian Island Indian Reservation, ME

Veazie town, ME

Waldo County, ME (part)

Winterport town, ME

Baton Rouge, LA MSA

Ascension Parish, LA

East Baton Rouge Parish, LA

Livingston Parish, LA

West Baton Rouge Parish, LA

Battle Creek, MI MSA

Calhoun County, MI

Beaumont-Port Arthur, TX MSA

Hardin County, TX

Jefferson County, TX

Orange County, TX

Beaver County, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA

Bellingham, WA MSA

Whatcom County, WA

Benton Harbor, MI MSA

Berrien County, MI

Bergen-Passaic, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Billings, MT MSA

Yellowstone County, MT

Biloxi-Gulfport, MS MSA

Hancock County, MS

Harrison County, MS

Binghamton, NY MSA

Broome County, NY

Tioga County, NY

Birmingham, AL MSA

Blount County, AL

Jefferson County, AL

St. Clair County, AL

Shelby County, AL

Walker County, AL

Bismarck, ND MSA

Burleigh County, ND

Morton County, ND

Bloomington, IN MSA

Monroe County, IN

Bloomington-Normal, IL MSA

McLean County, IL

Boise City, ID MSA

Ada County, ID

Boston, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Boston-Lawrence-Salem, MA-NH CMSA

Boston, MA PMSA

Bristol County, MA (part)

Mansfield town, MA

Norton town, MA

Raynham town, MA

Essex County, MA (part)

Lynn city, MA

Lynnfield town, MA

Nahant town, MA

Saugus town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Middlesex County, MA (part)—Con.

Everett city, MA

Framingham town, MA

Groton town, MA

Holliston town, MA

Hopkinton town, MA

Hudson town, MA

Lexington town, MA

Lincoln town, MA

Littleton town, MA

Malden city, MA

Marlborough city, MA

Maynard town, MA

Medford city, MA

Melrose city, MA

Natick town, MA

Newton city, MA

North Reading town, MA

Reading town, MA

Sherborn town, MA

Shirley town, MA

Somerville city, MA

Stoneham town, MA

Stow town, MA

Sudbury town, MA

Townsend town, MA

Wakefield town, MA

Waltham city, MA

Watertown town, MA

Wayland town, MA

Weston town, MA

Wilmington town, MA

Winchester town, MA

Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA

Braintree town, MA

Brookline town, MA

Canton town, MA

Cohasset town, MA

Dedham town, MA

Dover town, MA

Foxborough town, MA

Franklin town, MA

Holbrook town, MA

Medfield town, MA

Medway town, MA

Millis town, MA

Milton town, MA

Needham town, MA

Norfolk town, MA

Norwood town, MA

Quincy city, MA

Randolph town, MA

Sharon town, MA

Stoughton town, MA

Walpole town, MA

Wellesley town, MA

Westwood town, MA

Weymouth town, MA

Wrentham town, MA

Plymouth County, MA (part)

Carver town, MA

Duxbury town, MA

Hanover town, MA

Hanson town, MA

Hingham town, MA

Hull town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Plymouth County, MA (part)—Con.

Kingston town, MA

Lakeville town, MA

Marshfield town, MA

Middleborough town, MA

Norwell town, MA

Pembroke town, MA

Plymouth town, MA

Plympton town, MA

Rockland town, MA

Scituate town, MA

Suffolk County, MA (part)

Boston city, MA

Chelsea city, MA

Revere city, MA

Winthrop town, MA

Worcester County, MA (part)

Berlin town, MA

Bolton town, MA

Harvard town, MA

Hopedale town, MA

Lancaster town, MA

Mendon town, MA

Milford town, MA

Southborough town, MA

Upton town, MA

Brockton, MA PMSA

Bristol County, MA (part)

Easton town, MA

Norfolk County, MA (part)

Avon town, MA

Plymouth County, MA (part)

Abington town, MA

Bridgewater town, MA

Brockton city, MA

East Bridgewater town, MA

Halifax town, MA

West Bridgewater town, MA

Whitman town, MA

Lawrence-Haverhill, MA-NH PMSA

Essex County, MA (part)

Amesbury town, MA

Andover town, MA

Boxford town, MA

Georgetown town, MA

Groveland town, MA

Haverhill city, MA

Lawrence city, MA

Merrimac town, MA

Methuen town, MA

Newbury town, MA

Newburyport city, MA

North Andover town, MA

Salisbury town, MA

West Newbury town, MA

Rockingham County, NH (part)

Atkinson town, NH

Brentwood town, NH

Danville town, NH

Derry town, NH

East Kingston town, NH

Hampstead town, NH

Kingston town, NH

Newton town, NH

Plaistow town, NH

Salem town, NH

Sandown town, NH

Seabrook town, NH

Windham town, NH

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Lowell, MA-NH PMSA

Middlesex County, MA (part)

Billerica town, MA

Chelmsford town, MA

Dracut town, MA

Dunstable town, MA

Lowell city, MA

Pepperell town, MA

Tewksbury town, MA

Tyngsborough town, MA

Westford town, MA

Hillsborough County, NH (part)

Pelham town, NH

Nashua, NH PMSA

Hillsborough County, NH (part)

Amherst town, NH

Brookline town, NH

Hollis town, NH

Hudson town, NH

Litchfield town, NH

Merrimack town, NH

Milford town, NH

Mont Vernon town, NH

Nashua city, NH

Wilton town, NH

Rockingham County, NH (part)

Londonderry town, NH

Salem-Gloucester, MA PMSA

Essex County, MA (part)

Beverly city, MA

Danvers town, MA

Essex town, MA

Gloucester city, MA

Hamilton town, MA

Ipswich town, MA

Manchester town, MA

Marblehead town, MA

Middleton town, MA

Peabody city, MA

Rockport town, MA

Rowley town, MA

Salem city, MA

Swampscott town, MA

Topsfield town, MA

Wenham town, MA

Boulder-Longmont, CO PMSA—see Denver-**Boulder, CO CMSA****Bradenton, FL MSA**

Manatee County, FL

Brazoria, TX PMSA—see Houston-Galveston-**Brazoria, TX CMSA****Bremerton, WA MSA**

Kitsap County, WA

Bridgeport-Milford, CT PMSA—see New York-**Northern New Jersey-Long Island, NY-****NJ-CT CMSA****Bristol, CT PMSA—see Hartford-New Britain-****Middletown, CT CMSA****Brockton, MA PMSA—see Boston-Lawrence-****Salem, MA-NH CMSA****Brownsville-Harlingen, TX MSA**

Cameron County, TX

Bryan-College Station, TX MSA

Brazos County, TX

Buffalo, NY PMSA—see Buffalo-Niagara Falls,**NY CMSA**

Buffalo-Niagara Falls, NY CMSA

Buffalo, NY PMSA
 Erie County, NY
 Niagara Falls, NY PMSA
 Niagara County, NY

Burlington, NC MSA

Alamance County, NC

Burlington, VT MSA

Chittenden County, VT (part)
 Burlington city, VT
 Charlotte town, VT
 Colchester town, VT
 Essex Junction village, VT
 Essex town balance, VT
 Hinesburg town, VT
 Jericho town, VT
 Jericho village, VT
 Milton town, VT
 Milton village, VT
 Richmond town, VT
 Richmond village, VT
 St. George town, VT
 Shelburne town, VT
 South Burlington city, VT
 Williston town, VT
 Winooski city, VT
 Franklin County, VT (part)
 Georgia town, VT
 Grand Isle town, VT
 South Hero town, VT

Canton, OH MSA

Carroll County, OH
 Stark County, OH

Casper, WY MSA

Natrona County, WY

Cedar Rapids, IA MSA

Linn County, IA

Champaign-Urbana-Rantoul, IL MSA

Champaign County, IL

Charleston, SC MSA

Berkeley County, SC
 Charleston County, SC
 Dorchester County, SC

Charleston, WV MSA

Kanawha County, WV
 Putnam County, WV

Charlotte-Gastonia-Rock Hill, NC-SC MSA

Cabarrus County, NC
 Gaston County, NC
 Lincoln County, NC
 Mecklenburg County, NC
 Rowan County, NC
 Union County, NC
 York County, SC

Charlottesville, VA MSA

Albemarle County, VA
 Fluvanna County, VA
 Greene County, VA
 Charlottesville city, VA

Chattanooga, TN-GA MSA

Catoosa County, GA
 Dade County, GA
 Walker County, GA
 Hamilton County, TN
 Marion County, TN
 Sequatchie County, TN

Cheyenne, WY MSA

Laramie County, WY

Chicago, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA**Chicago-Gary-Lake County, IL-IN-WI CMSA**

Aurora-Elgin, IL PMSA
 Kane County, IL
 Kendall County, IL
 Chicago, IL PMSA
 Cook County, IL
 Du Page County, IL
 McHenry County, IL
 Gary-Hammond, IN PMSA
 Lake County, IN
 Porter County, IN
 Joliet, IL PMSA
 Grundy County, IL
 Will County, IL
 Kenosha, WI PMSA
 Kenosha County, WI
 Lake County, IL PMSA
 Lake County, IL

Chico, CA MSA

Butte County, CA

Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA**Cincinnati-Hamilton, OH-KY-IN CMSA**

Cincinnati, OH-KY-IN PMSA
 Dearborn County, IN
 Boone County, KY
 Campbell County, KY
 Kenton County, KY
 Clermont County, OH
 Hamilton County, OH
 Warren County, OH
 Hamilton-Middletown, OH PMSA
 Butler County, OH

Clarksville-Hopkinsville, TN-KY MSA

Christian County, KY
 Montgomery County, TN

Cleveland, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA**Cleveland-Akron-Lorain, OH CMSA**

Akron, OH PMSA
 Portage County, OH
 Summit County, OH
 Cleveland, OH PMSA
 Cuyahoga County, OH
 Geauga County, OH
 Lake County, OH
 Medina County, OH
 Lorain-Elyria, OH PMSA
 Lorain County, OH

Colorado Springs, CO MSA

El Paso County, CO

Columbia, MO MSA

Boone County, MO

Columbia, SC MSA

Lexington County, SC
 Richland County, SC

Columbus, GA-AL MSA

Russell County, AL
 Chattahoochee County, GA
 Muscogee County, GA

Columbus, OH MSA

Delaware County, OH
 Fairfield County, OH
 Franklin County, OH
 Licking County, OH
 Madison County, OH
 Pickaway County, OH
 Union County, OH

Corpus Christi, TX MSA

Nueces County, TX
 San Patricio County, TX

Cumberland, MD-WV MSA

Allegany County, MD
 Mineral County, WV

Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA**Dallas-Fort Worth, TX CMSA**

Dallas, TX PMSA
 Collin County, TX
 Dallas County, TX
 Denton County, TX
 Ellis County, TX
 Kaufman County, TX
 Rockwall County, TX
 Fort Worth-Arlington, TX PMSA
 Johnson County, TX
 Parker County, TX
 Tarrant County, TX

Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**Danville, VA MSA**

Pittsylvania County, VA
 Danville city, VA

Davenport-Rock Island-Moline, IA-IL MSA

Henry County, IL
 Rock Island County, IL
 Scott County, IA

Dayton-Springfield, OH MSA

Clark County, OH
 Greene County, OH
 Miami County, OH
 Montgomery County, OH

Daytona Beach, FL MSA

Volusia County, FL

Decatur, IL MSA

Macon County, IL

Denver, CO PMSA—see Denver-Boulder, CO CMSA**Denver-Boulder, CO CMSA**

Boulder-Longmont, CO PMSA
 Boulder County, CO
 Denver, CO PMSA
 Adams County, CO
 Arapahoe County, CO
 Denver County, CO
 Douglas County, CO
 Jefferson County, CO

Des Moines, IA MSA

Dallas County, IA
 Polk County, IA
 Warren County, IA

Detroit, MI PMSA—see Detroit-Ann Arbor, MI CMSA**Detroit-Ann Arbor, MI CMSA**

Ann Arbor, MI PMSA
 Washtenaw County, MI
 Detroit, MI PMSA
 Lapeer County, MI
 Livingston County, MI
 Macomb County, MI
 Monroe County, MI
 Oakland County, MI
 St. Clair County, MI
 Wayne County, MI

Dothan, AL MSA

Dale County, AL
 Houston County, AL

Dubuque, IA MSA

Dubuque County, IA

Duluth, MN-WI MSA
St. Louis County, MN
Douglas County, WI

Eau Claire, WI MSA
Chippewa County, WI
Eau Claire County, WI

El Paso, TX MSA
El Paso County, TX

Elkhart-Goshen, IN MSA
Elkhart County, IN

Elmira, NY MSA
Chemung County, NY

Enid, OK MSA
Garfield County, OK

Erie, PA MSA
Erie County, PA

Eugene-Springfield, OR MSA
Lane County, OR

Evansville, IN-KY MSA
Posey County, IN
Vanderburgh County, IN
Warrick County, IN
Henderson County, KY

Fall River, MA-RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA

Fargo-Moorhead, ND-MN MSA
Clay County, MN
Cass County, ND

Fayetteville, NC MSA
Cumberland County, NC

Fayetteville-Springdale, AR MSA
Washington County, AR

Fitchburg-Leominster, MA MSA
Middlesex County, MA (part)
Ashby town, MA
Worcester County, MA (part)
Ashburnham town, MA
Fitchburg city, MA
Leominster city, MA
Lunenburg town, MA
Westminster town, MA

Flint, MI MSA
Genesee County, MI

Florence, AL MSA
Colbert County, AL
Lauderdale County, AL

Florence, SC MSA
Florence County, SC

Fort Collins-Loveland, CO MSA
Larimer County, CO

Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA—see Miami-Fort Lauderdale, FL CMSA

Fort Myers-Cape Coral, FL MSA
Lee County, FL

Fort Pierce, FL MSA
Martin County, FL
St. Lucie County, FL

Fort Smith, AR-OK MSA
Crawford County, AR
Sebastian County, AR
Sequoyah County, OK

Fort Walton Beach, FL MSA
Okaloosa County, FL

Fort Wayne, IN MSA
Allen County, IN
De Kalb County, IN
Whitley County, IN

Fort Worth-Arlington, TX PMSA—see Dallas-Fort Worth, TX CMSA

Fresno, CA MSA
Fresno County, CA

Gadsden, AL MSA
Etowah County, AL

Gainesville, FL MSA
Alachua County, FL
Bradford County, FL

Galveston-Texas City, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Gary-Hammond, IN PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Glens Falls, NY MSA
Warren County, NY
Washington County, NY

Grand Forks, ND MSA
Grand Forks County, ND

Grand Rapids, MI MSA
Kent County, MI
Ottawa County, MI

Great Falls, MT MSA
Cascade County, MT

Greeley, CO MSA
Weld County, CO

Green Bay, WI MSA
Brown County, WI

Greensboro-Winston-Salem-High Point, NC MSA
Davidson County, NC
Davie County, NC
Forsyth County, NC
Guilford County, NC
Randolph County, NC
Stokes County, NC
Yadkin County, NC

Greenville-Spartanburg, SC MSA
Greenville County, SC
Pickens County, SC
Spartanburg County, SC

Hagerstown, MD MSA
Washington County, MD

Hamilton-Middletown, OH PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA

Harrisburg-Lebanon-Carlisle, PA MSA
Cumberland County, PA
Dauphin County, PA
Lebanon County, PA
Perry County, PA

Hartford, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

Hartford-New Britain-Middletown, CT CMSA
Bristol, CT PMSA
Hartford County, CT (part)
Bristol city, CT
Burlington town, CT
Litchfield County, CT (part)
Plymouth town, CT
Hartford, CT PMSA
Hartford County, CT (part)
Avon town, CT
Bloomfield town, CT
Canton town, CT
East Granby town, CT
East Hartford town, CT
East Windsor town, CT
Enfield town, CT
Farmington town, CT
Glastonbury town, CT
Granby town, CT
Hartford city, CT
Manchester town, CT
Marlborough town, CT

Hartford-New Britain-Middletown, CT CMSA—Con.
Hartford, CT PMSA—Con.
Hartford County, CT (part)—Con.
Newington town, CT
Rocky Hill town, CT
Simsbury town, CT
South Windsor town, CT
Suffield town, CT
West Hartford town, CT
Wethersfield town, CT
Windsor Locks town, CT
Windsor town, CT
Litchfield County, CT (part)
Barkhamsted town, CT
New Hartford town, CT
East Haddam town, CT
New London County, CT (part)
Colchester borough, CT
Colchester town balance, CT
Tolland County, CT (part)
Andover town, CT
Bolton town, CT
Columbia town, CT
Coventry town, CT
Ellington town, CT
Hebron town, CT
Somers town, CT
Stafford Springs borough, CT
Stafford town balance, CT
Tolland town, CT
Vernon town, CT
Willington town, CT
Middletown, CT PMSA
Middlesex County, CT (part)
Cromwell town, CT
Durham town, CT
East Hampton town, CT
Haddam town, CT
Middlefield town, CT
Middletown city, CT
Portland town, CT
New Britain, CT PMSA
Hartford County, CT (part)
Berlin town, CT
New Britain city, CT
Plainville town, CT
Southington town, CT

Hickory, NC MSA
Alexander County, NC
Burke County, NC
Catawba County, NC

Honolulu, HI MSA
Honolulu County, HI

Houma-Thibodaux, LA MSA
Lafourche Parish, LA
Terrebonne Parish, LA

Houston, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Houston-Galveston-Brazoria, TX CMSA
Brazoria, TX PMSA
Brazoria County, TX
Galveston-Texas City, TX PMSA
Galveston County, TX
Houston, TX PMSA
Fort Bend County, TX
Harris County, TX
Liberty County, TX
Montgomery County, TX
Waller County, TX

Huntington-Ashland, WV-KY-OH MSA

Boyd County, KY
 Carter County, KY
 Greenup County, KY
 Lawrence County, OH
 Cabell County, WV
 Wayne County, WV

Huntsville, AL MSA

Madison County, AL

Indianapolis, IN MSA

Boone County, IN
 Hamilton County, IN
 Hancock County, IN
 Hendricks County, IN
 Johnson County, IN
 Marion County, IN
 Morgan County, IN
 Shelby County, IN

Iowa City, IA MSA

Johnson County, IA

Jackson, MI MSA

Jackson County, MI

Jackson, MS MSA

Hinds County, MS
 Madison County, MS
 Rankin County, MS

Jackson, TN MSA

Madison County, TN

Jacksonville, FL MSA

Clay County, FL
 Duval County, FL
 Nassau County, FL
 St. Johns County, FL

Jacksonville, NC MSA

Onslow County, NC

Janesville-Beloit, WI MSA

Rock County, WI

Jersey City, NJ PMSA—see New York-Northern**New Jersey-Long Island, NY-NJ-CT CMSA****Johnson City-Kingsport-Bristol, TN-VA MSA**

Carter County, TN
 Hawkins County, TN
 Sullivan County, TN
 Unicoi County, TN
 Washington County, TN
 Scott County, VA
 Washington County, VA
 Bristol city, VA

Johnstown, PA MSA

Cambria County, PA
 Somerset County, PA

Joliet, IL PMSA—see Chicago-Gary-Lake**County, IL-IN-WI CMSA****Joplin, MO MSA**

Jasper County, MO
 Newton County, MO

Kalamazoo, MI MSA

Kalamazoo County, MI

Kankakee, IL MSA

Kankakee County, IL

Kansas City, MO-KS MSA

Johnson County, KS
 Leavenworth County, KS
 Miami County, KS
 Wyandotte County, KS
 Cass County, MO
 Clay County, MO
 Jackson County, MO
 Lafayette County, MO
 Platte County, MO
 Ray County, MO

Kenosha, WI PMSA—see Chicago-Gary-Lake**County, IL-IN-WI CMSA****Killeen-Temple, TX MSA**

Bell County, TX
 Coryell County, TX

Knoxville, TN MSA

Anderson County, TN
 Blount County, TN
 Grainger County, TN
 Jefferson County, TN
 Knox County, TN
 Sevier County, TN
 Union County, TN

Kokomo, IN MSA

Howard County, IN
 Tipton County, IN

La Crosse, WI MSA

La Crosse County, WI

Lafayette, LA MSA

Lafayette Parish, LA
 St. Martin Parish, LA

Lafayette-West Lafayette, IN MSA

Tippecanoe County, IN

Lake Charles, LA MSA

Calcasieu Parish, LA

Lake County, IL PMSA—see Chicago-Gary-**Lake County, IL-IN-WI CMSA****Lakeland-Winter Haven, FL MSA**

Polk County, FL

Lancaster, PA MSA

Lancaster County, PA

Lansing-East Lansing, MI MSA

Clinton County, MI
 Eaton County, MI
 Ingham County, MI

Laredo, TX MSA

Webb County, TX

Las Cruces, NM MSA

Dona Ana County, NM

Las Vegas, NV MSA

Clark County, NV

Lawrence, KS MSA

Douglas County, KS

Lawrence-Haverhill, MA-NH PMSA—see Boston-**Lawrence-Salem, MA-NH CMSA****Lawton, OK MSA**

Comanche County, OK

Lewiston-Auburn, ME MSA

Androscoggin County, ME (part)
 Auburn city, ME
 Greene town, ME
 Lewiston city, ME
 Lisbon town, ME
 Mechanic Falls town, ME
 Poland town, ME
 Sabattus town, ME

Lexington-Fayette, KY MSA

Bourbon County, KY
 Clark County, KY
 Fayette County, KY
 Jessamine County, KY
 Scott County, KY
 Woodford County, KY

Lima, OH MSA

Allen County, OH
 Auglaize County, OH

Lincoln, NE MSA

Lancaster County, NE

Little Rock-North Little Rock, AR MSA

Faulkner County, AR
 Lonoke County, AR
 Pulaski County, AR
 Saline County, AR

Longview-Marshall, TX MSA

Gregg County, TX
 Harrison County, TX

Lorain-Elyria, OH PMSA—see Cleveland-**Akron-Lorain, OH CMSA****Los Angeles-Anaheim-Riverside, CA CMSA**

Anaheim-Santa Ana, CA PMSA
 Orange County, CA
 Los Angeles-Long Beach, CA PMSA
 Los Angeles County, CA
 Oxnard-Ventura, CA PMSA
 Ventura County, CA
 Riverside-San Bernardino, CA PMSA
 Riverside County, CA
 San Bernardino County, CA

Los Angeles-Long Beach, CA PMSA—see**Los Angeles-Anaheim-Riverside, CA CMSA****Louisville, KY-IN MSA**

Clark County, IN
 Floyd County, IN
 Harrison County, IN
 Bullitt County, KY
 Jefferson County, KY
 Oldham County, KY
 Shelby County, KY

Lowell, MA-NH PMSA—see Boston-Lawrence-**Salem, MA-NH CMSA****Lubbock, TX MSA**

Lubbock County, TX

Lynchburg, VA MSA

Amherst County, VA
 Campbell County, VA
 Lynchburg city, VA

Macon-Warner Robins, GA MSA

Bibb County, GA
 Houston County, GA
 Jones County, GA
 Peach County, GA

Madison, WI MSA

Dane County, WI

Manchester, NH MSA

Hillsborough County, NH (part)
 Bedford town, NH
 Goffstown town, NH
 Manchester city, NH
 Merrimack County, NH (part)
 Allenstown town, NH
 Hooksett town, NH
 Auburn town, NH
 Candia town, NH

Mansfield, OH MSA

Richland County, OH

McAllen-Edinburg-Mission, TX MSA

Hidalgo County, TX

Medford, OR MSA

Jackson County, OR

Melbourne-Titusville-Palm Bay, FL MSA

Brevard County, FL

Memphis, TN-AR-MS MSA

Crittenden County, AR
 De Soto County, MS
 Shelby County, TN
 Tipton County, TN

Merced, CA MSA

Merced County, CA

Miami-Fort Lauderdale, FL CMSA

Fort Lauderdale-Hollywood-Pompano
 Beach, FL PMSA
 Broward County, FL
 Miami-Hialeah, FL PMSA
 Dade County, FL

Miami-Hialeah, FL PMSA—see Miami-Fort Lauderdale, FL CMSA

Middlesex-Somerset-Hunterdon, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Middletown, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

Midland, TX MSA

Midland County, TX

Milwaukee, WI PMSA—see Milwaukee-Racine, WI CMSA

Milwaukee-Racine, WI CMSA

Milwaukee, WI PMSA

Milwaukee County, WI

Ozaukee County, WI

Washington County, WI

Waukesha County, WI

Racine, WI PMSA

Racine County, WI

Minneapolis-St. Paul, MN-WI MSA

Anoka County, MN

Carver County, MN

Chisago County, MN

Dakota County, MN

Hennepin County, MN

Isanti County, MN

Ramsey County, MN

Scott County, MN

Washington County, MN

Wright County, MN

St. Croix County, WI

Mobile, AL MSA

Baldwin County, AL

Mobile County, AL

Modesto, CA MSA

Stanislaus County, CA

Monmouth-Ocean, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Monroe, LA MSA

Ouachita Parish, LA

Montgomery, AL MSA

Autauga County, AL

Elmore County, AL

Montgomery County, AL

Muncie, IN MSA

Delaware County, IN

Muskegon, MI MSA

Muskegon County, MI

Naples, FL MSA

Collier County, FL

Nashua, NH PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Nashville, TN MSA

Cheatham County, TN

Davidson County, TN

Dickson County, TN

Robertson County, TN

Rutherford County, TN

Sumner County, TN

Williamson County, TN

Wilson County, TN

Nassau-Suffolk, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

New Bedford, MA MSA

Bristol County, MA (part)

Acushnet town, MA

Dartmouth town, MA

Fairhaven town, MA

Freetown town, MA

New Bedford city, MA

New Bedford, MA MSA—Con.

Plymouth County, MA (part)

Marion town, MA

Mattapoisett town, MA

Rochester town, MA

New Britain, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

New Haven-Meriden, CT MSA

Middlesex County, CT (part)

Clinton town, CT

Killingworth town, CT

New Haven County, CT (part)

Bethany town, CT

Branford town, CT

Cheshire town, CT

East Haven town, CT

Guilford town, CT

Hamden town, CT

Madison town, CT

Meriden city, CT

New Haven city, CT

North Branford town, CT

North Haven town, CT

Orange town, CT

Wallingford town, CT

West Haven city, CT

Woodbridge town, CT

New London-Norwich, CT-RI MSA

New London County, CT (part)

Bozrah town, CT

East Lyme town, CT

Franklin town, CT

Griswold town balance, CT

Groton city, CT

Groton town balance, CT

Jewett City borough, CT

Ledyard town, CT

Lisbon town, CT

Montville town, CT

New London city, CT

North Stonington town, CT

Norwich city, CT

Old Lyme town, CT

Preston town, CT

Salem town, CT

Sprague town, CT

Stonington town, CT

Waterford town, CT

Windham County, CT (part)

Canterbury town, CT

Washington County, RI (part)

Hopkinton town, RI

Westerly town, RI

New Orleans, LA MSA

Jefferson Parish, LA

Orleans Parish, LA

St. Bernard Parish, LA

St. Charles Parish, LA

St. John the Baptist Parish, LA

St. Tammany Parish, LA

New York, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Bergen-Passaic, NJ PMSA

Bergen County, NJ

Passaic County, NJ

Bridgeport-Milford, CT PMSA

Fairfield County, CT (part)

Bridgeport city, CT

Easton town, CT

Fairfield town, CT

Monroe town, CT

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA—Con.

Bridgeport-Milford, CT PMSA—Con.

Fairfield County, CT (part)—Con.

Shelton city, CT

Stratford town, CT

Trumbull town, CT

New Haven County, CT (part)

Ansonia city, CT

Beacon Falls town, CT

Derby city, CT

Milford city, CT

Milford town balance, CT

Oxford town, CT

Seymour town, CT

Woodmont borough, CT

Danbury, CT PMSA

Fairfield County, CT (part)

Bethel town, CT

Brookfield town, CT

Danbury city, CT

New Fairfield town, CT

Newtown town, CT

Redding town, CT

Ridgefield town, CT

Sherman town, CT

Litchfield County, CT (part)

Bridgewater town, CT

New Milford town, CT

Jersey City, NJ PMSA

Hudson County, NJ

Middlesex-Somerset-Hunterdon, NJ PMSA

Hunterdon County, NJ

Middlesex County, NJ

Somerset County, NJ

Monmouth-Ocean, NJ PMSA

Monmouth County, NJ

Ocean County, NJ

Nassau-Suffolk, NY PMSA

Nassau County, NY

Suffolk County, NY

New York, NY PMSA

Bronx County, NY

Kings County, NY

New York County, NY

Putnam County, NY

Queens County, NY

Richmond County, NY

Rockland County, NY

Westchester County, NY

Newark, NJ PMSA

Essex County, NJ

Morris County, NJ

Sussex County, NJ

Union County, NJ

Norwalk, CT PMSA

Fairfield County, CT (part)

Norwalk city, CT

Weston town, CT

Westport town, CT

Wilton town, CT

Orange County, NY PMSA

Orange County, NY

Stamford, CT PMSA

Fairfield County, CT (part)

Darien town, CT

Greenwich town, CT

New Canaan town, CT

Stamford city, CT

Newark, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Niagara Falls, NY PMSA—see Buffalo-Niagara Falls, NY CMSA
Norfolk-Virginia Beach-Newport News, VA MSA
 Gloucester County, VA
 James City County, VA
 York County, VA
 Chesapeake city, VA
 Hampton city, VA
 Newport News city, VA
 Norfolk city, VA
 Poquoson city, VA
 Portsmouth city, VA
 Suffolk city, VA
 Virginia Beach city, VA
 Williamsburg city, VA
Norwalk, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Oakland, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
Ocala, FL MSA
 Marion County, FL
Odessa, TX MSA
 Ector County, TX
Oklahoma City, OK MSA
 Canadian County, OK
 Cleveland County, OK
 Logan County, OK
 McClain County, OK
 Oklahoma County, OK
 Pottawatomie County, OK
Olympia, WA MSA
 Thurston County, WA
Omaha, NE-IA MSA
 Pottawattamie County, IA
 Douglas County, NE
 Sarpy County, NE
 Washington County, NE
Orange County, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Orlando, FL MSA
 Orange County, FL
 Osceola County, FL
 Seminole County, FL
Owensboro, KY MSA
 Daviess County, KY
Oxnard-Ventura, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA
Panama City, FL MSA
 Bay County, FL
Parkersburg-Marietta, WV-OH MSA
 Washington County, OH
 Wood County, WV
Pascagoula, MS MSA
 Jackson County, MS
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA
Pensacola, FL MSA
 Escambia County, FL
 Santa Rosa County, FL
Peoria, IL MSA
 Peoria County, IL
 Tazewell County, IL
 Woodford County, IL
Philadelphia, PA-NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA

Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA
 Philadelphia, PA-NJ PMSA
 Burlington County, NJ
 Camden County, NJ
 Gloucester County, NJ
 Bucks County, PA
 Chester County, PA
 Delaware County, PA
 Montgomery County, PA
 Philadelphia County, PA
 Trenton, NJ PMSA
 Mercer County, NJ
 Vineland-Millville-Bridgeton, NJ PMSA
 Cumberland County, NJ
 Wilmington, DE-NJ-MD PMSA
 New Castle County, DE
 Cecil County, MD
 Salem County, NJ
Phoenix, AZ MSA
 Maricopa County, AZ
Pine Bluff, AR MSA
 Jefferson County, AR
Pittsburgh, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA
Pittsburgh-Beaver Valley, PA CMSA
 Beaver County, PA PMSA
 Beaver County, PA
 Pittsburgh, PA PMSA
 Allegheny County, PA
 Fayette County, PA
 Washington County, PA
 Westmoreland County, PA
Pittsfield, MA MSA
 Berkshire County, MA (part)
 Cheshire town, MA
 Dalton town, MA
 Hinsdale town, MA
 Lanesborough town, MA
 Lee town, MA
 Lenox town, MA
 Pittsfield city, MA
 Richmond town, MA
 Stockbridge town, MA
Portland, ME MSA
 Cumberland County, ME (part)
 Cape Elizabeth town, ME
 Cumberland town, ME
 Falmouth town, ME
 Freeport town, ME
 Gorham town, ME
 Gray town, ME
 North Yarmouth town, ME
 Portland city, ME
 Raymond town, ME
 Scarborough town, ME
 South Portland city, ME
 Standish town, ME
 Westbrook city, ME
 Windham town, ME
 Yarmouth town, ME
 York County, ME (part)
 Buxton town, ME
 Hollis town, ME
 Old Orchard Beach town, ME
Portland, OR PMSA—see Portland-Vancouver, OR-WA CMSA

Portland-Vancouver, OR-WA CMSA
 Portland, OR PMSA
 Clackamas County, OR
 Multnomah County, OR
 Washington County, OR
 Yamhill County, OR
 Vancouver, WA PMSA
 Clark County, WA
Portsmouth-Dover-Rochester, NH-ME MSA
 York County, ME (part)
 Berwick town, ME
 Eliot town, ME
 Kittery town, ME
 North Berwick town, ME
 Ogunquit town, ME
 South Berwick town, ME
 Wells town, ME
 York town, ME
 Rockingham County, NH (part)
 Exeter town, NH
 Greenland town, NH
 Hampton town, NH
 New Castle town, NH
 Newfields town, NH
 Newington town, NH
 Newmarket town, NH
 North Hampton town, NH
 Portsmouth city, NH
 Rye town, NH
 Stratham town, NH
 Strafford County, NH (part)
 Barrington town, NH
 Dover city, NH
 Durham town, NH
 Farmington town, NH
 Lee town, NH
 Madbury town, NH
 Milton town, NH
 Rochester city, NH
 Rollinsford town, NH
 Somersworth city, NH
Poughkeepsie, NY MSA
 Dutchess County, NY
Providence, RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA
Providence-Pawtucket-Fall River, RI-MA CMSA
 Fall River, MA-RI PMSA
 Bristol County, MA (part)
 Fall River city, MA
 Somerset town, MA
 Swansea town, MA
 Westport town, MA
 Newport County, RI (part)
 Little Compton town, RI
 Tiverton town, RI
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA
 Bristol County, MA (part)
 Attleboro city, MA
 North Attleborough town, MA
 Rehoboth town, MA
 Seekonk town, MA
 Norfolk County, MA (part)
 Plainville town, MA
 Worcester County, MA (part)
 Blackstone town, MA
 Millville town, MA
 Providence County, RI (part)
 Burrillville town, RI
 Central Falls city, RI
 Cumberland town, RI
 Lincoln town, RI

Providence-Pawtucket-Fall River, RI-MA CMSA—Con.

Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—Con.

Providence County, RI (part)—Con.

North Smithfield town, RI

Pawtucket city, RI

Smithfield town, RI

Woonsocket city, RI

Providence, RI PMSA

Bristol County, RI (part)

Barrington town, RI

Bristol town, RI

Warren town, RI

Kent County, RI (part)

Coventry town, RI

East Greenwich town, RI

Warwick city, RI

West Warwick town, RI

Newport County, RI (part)

Jamestown town, RI

Providence County, RI (part)

Cranston city, RI

East Providence city, RI

Foster town, RI

Gloicester town, RI

Johnston town, RI

North Providence town, RI

Providence city, RI

Scituate town, RI

Washington County, RI (part)

Exeter town, RI

Narragansett town, RI

North Kingstown town, RI

Richmond town, RI

South Kingstown town, RI

Provo-Orem, UT MSA

Utah County, UT

Pueblo, CO MSA

Pueblo County, CO

Racine, WI PMSA—see Milwaukee-Racine, WI CMSA

Raleigh-Durham, NC MSA

Durham County, NC

Franklin County, NC

Orange County, NC

Wake County, NC

Rapid City, SD MSA

Pennington County, SD

Reading, PA MSA

Berks County, PA

Redding, CA MSA

Shasta County, CA

Reno, NV MSA

Washoe County, NV

Richland-Kennewick-Pasco, WA MSA

Benton County, WA

Franklin County, WA

Richmond-Petersburg, VA MSA

Charles City County, VA

Chesterfield County, VA

Dinwiddie County, VA

Goochland County, VA

Hanover County, VA

Henrico County, VA

New Kent County, VA

Powhatan County, VA

Prince George County, VA

Colonial Heights city, VA

Hopewell city, VA

Petersburg city, VA

Richmond city, VA

Riverside-San Bernardino, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Roanoke, VA MSA

Botetourt County, VA

Roanoke County, VA

Roanoke city, VA

Salem city, VA

Rochester, MN MSA

Olmsted County, MN

Rochester, NY MSA

Livingston County, NY

Monroe County, NY

Ontario County, NY

Orleans County, NY

Wayne County, NY

Rockford, IL MSA

Boone County, IL

Winnebago County, IL

Sacramento, CA MSA

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo County, CA

Saginaw-Bay City-Midland, MI MSA

Bay County, MI

Midland County, MI

Saginaw County, MI

St. Cloud, MN MSA

Benton County, MN

Sherburne County, MN

Stearns County, MN

St. Joseph, MO MSA

Buchanan County, MO

St. Louis, MO-IL MSA

Clinton County, IL

Jersey County, IL

Madison County, IL

Monroe County, IL

St. Clair County, IL

Franklin County, MO

Jefferson County, MO

St. Charles County, MO

St. Louis County, MO

St. Louis city, MO

Salem, OR MSA

Marion County, OR

Polk County, OR

Salem-Gloucester, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Salinas-Seaside-Monterey, CA MSA

Monterey County, CA

Salt Lake City-Ogden, UT MSA

Davis County, UT

Salt Lake County, UT

Weber County, UT

San Angelo, TX MSA

Tom Green County, TX

San Antonio, TX MSA

Bexar County, TX

Comal County, TX

Guadalupe County, TX

San Diego, CA MSA

San Diego County, CA

San Francisco, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

San Francisco-Oakland-San Jose, CA CMSA

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

San Francisco-Oakland-San Jose, CA CMSA—Con.

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Jose, CA PMSA

Santa Clara County, CA

Santa Cruz, CA PMSA

Santa Cruz County, CA

Santa Rosa-Petaluma, CA PMSA

Sonoma County, CA

Vallejo-Fairfield-Napa, CA PMSA

Napa County, CA

Solano County, CA

San Jose, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Santa Barbara-Santa Maria-Lompoc, CA MSA

Santa Barbara County, CA

Santa Cruz, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Santa Fe, NM MSA

Los Alamos County, NM

Santa Fe County, NM

Santa Rosa-Petaluma, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Sarasota, FL MSA

Sarasota County, FL

Savannah, GA MSA

Chatham County, GA

Effingham County, GA

Scranton-Wilkes-Barre, PA MSA

Columbia County, PA

Lackawanna County, PA

Luzerne County, PA

Monroe County, PA

Wyoming County, PA

Seattle, WA PMSA—see Seattle-Tacoma, WA CMSA

Seattle-Tacoma, WA CMSA

Seattle, WA PMSA

King County, WA

Snohomish County, WA

Tacoma, WA PMSA

Pierce County, WA

Sharon, PA MSA

Mercer County, PA

Sheboygan, WI MSA

Sheboygan County, WI

Sherman-Denison, TX MSA

Grayson County, TX

Shreveport, LA MSA

Bossier Parish, LA

Caddo Parish, LA

Sioux City, IA-NE MSA

Woodbury County, IA

Dakota County, NE

Sioux Falls, SD MSA

Minnehaha County, SD

South Bend-Mishawaka, IN MSA

St. Joseph County, IN

Spokane, WA MSA

Spokane County, WA

Springfield, IL MSA

Menard County, IL

Sangamon County, IL

Springfield, MO MSA

Christian County, MO

Greene County, MO

Springfield, MA MSA

Hampden County, MA (part)
 Agawam town, MA
 Chicopee city, MA
 East Longmeadow town, MA
 Hampden town, MA
 Holyoke city, MA
 Longmeadow town, MA
 Ludlow town, MA
 Monson town, MA
 Montgomery town, MA
 Palmer town, MA
 Russell town, MA
 Southwick town, MA
 Springfield city, MA
 Westfield city, MA
 West Springfield town, MA
 Wilbraham town, MA
 Hampshire County, MA (part)
 Belchertown town, MA
 Easthampton town, MA
 Granby town, MA
 Huntington town, MA
 Northampton city, MA
 Southampton town, MA
 South Hadley town, MA

**Stamford, CT PMSA—see New York-Northern
 New Jersey-Long Island, NY-NJ-CT CMSA**

State College, PA MSA

Centre County, PA

Steubenville-Weirton, OH-WV MSA

Jefferson County, OH
 Brooke County, WV
 Hancock County, WV

Stockton, CA MSA

San Joaquin County, CA

Syracuse, NY MSA

Madison County, NY
 Onondaga County, NY
 Oswego County, NY

**Tacoma, WA PMSA—see Seattle-Tacoma,
 WA CMSA**

Tallahassee, FL MSA

Gadsden County, FL
 Leon County, FL

Tampa-St. Petersburg-Clearwater, FL MSA

Hernando County, FL
 Hillsborough County, FL
 Pasco County, FL
 Pinellas County, FL

Terre Haute, IN MSA

Clay County, IN
 Vigo County, IN

Texarkana, TX-Texarkana, AR MSA

Miller County, AR
 Bowie County, TX

Toledo, OH MSA

Fulton County, OH
 Lucas County, OH
 Wood County, OH

Topeka, KS MSA

Shawnee County, KS

**Trenton, NJ PMSA—see Philadelphia-Wilmington-
 Trenton, PA-NJ-DE-MD CMSA**

Tucson, AZ MSA

Pima County, AZ

Tulsa, OK MSA

Creek County, OK
 Osage County, OK
 Rogers County, OK
 Tulsa County, OK
 Wagoner County, OK

Tuscaloosa, AL MSA

Tuscaloosa County, AL

Tyler, TX MSA

Smith County, TX

Utica-Rome, NY MSA

Herkimer County, NY
 Oneida County, NY

Vallejo-Fairfield-Napa, CA PMSA—see San**Francisco-Oakland-San Jose, CA CMSA**

**Vancouver, WA PMSA—see Portland-
 Vancouver, OR-WA CMSA**

Victoria, TX MSA

Victoria County, TX

Vineland-Millville-Bridgeton, NJ PMSA—see**Philadelphia-Wilmington-Trenton, PA-NJ-
 DE-MD CMSA****Visalia-Tulare-Porterville, CA MSA**

Tulare County, CA

Waco, TX MSA

McLennan County, TX

Washington, DC-MD-VA MSA

District of Columbia, DC
 Calvert County, MD
 Charles County, MD
 Frederick County, MD
 Montgomery County, MD
 Prince George's County, MD
 Arlington County, VA
 Fairfax County, VA
 Loudoun County, VA
 Prince William County, VA
 Stafford County, VA
 Alexandria city, VA
 Fairfax city, VA
 Falls Church city, VA
 Manassas city, VA
 Manassas Park city, VA

Waterbury, CT MSA

Litchfield County, CT (part)
 Bethlehem town, CT
 Thomaston town, CT
 Watertown town, CT
 Woodbury town, CT
 New Haven County, CT (part)
 Middlebury town, CT
 Naugatuck borough, CT
 Prospect town, CT
 Southbury town, CT
 Waterbury city, CT
 Wolcott town, CT

Waterloo-Cedar Falls, IA MSA

Black Hawk County, IA
 Bremer County, IA

Wausau, WI MSA

Marathon County, WI

**West Palm Beach-Boca Raton-Delray Beach,
 FL MSA**

Palm Beach County, FL

Wheeling, WV-OH MSA

Belmont County, OH
 Marshall County, WV
 Ohio County, WV

Wichita, KS MSA

Butler County, KS
 Harvey County, KS
 Sedgwick County, KS

Wichita Falls, TX MSA

Wichita County, TX

Williamsport, PA MSA

Lycoming County, PA

Wilmington, DE-NJ-MD PMSA—see Philadelphia-**Wilmington-Trenton, PA-NJ-DE-MD CMSA****Wilmington, NC MSA**

New Hanover County, NC

Worcester, MA MSA

Worcester County, MA (part)
 Auburn town, MA
 Barre town, MA
 Boylston town, MA
 Brookfield town, MA
 Charlton town, MA
 Clinton town, MA
 Douglas town, MA
 Dudley town, MA
 East Brookfield town, MA
 Grafton town, MA
 Holden town, MA
 Leicester town, MA
 Millbury town, MA
 Northborough town, MA
 Northbridge town, MA
 North Brookfield town, MA
 Oxford town, MA
 Paxton town, MA
 Princeton town, MA
 Rutland town, MA
 Shrewsbury town, MA
 Spencer town, MA
 Sterling town, MA
 Sutton town, MA
 Uxbridge town, MA
 Webster town, MA
 Westborough town, MA
 West Boylston town, MA
 Worcester city, MA

Yakima, WA MSA

Yakima County, WA

York, PA MSA

Adams County, PA
 York County, PA

Youngstown-Warren, OH MSA

Mahoning County, OH
 Trumbull County, OH

Yuba City, CA MSA

Sutter County, CA
 Yuba County, CA

PUBLICATION PROGRAM

1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

- Printed reports [P]
- CD-ROM [C]
- Computer tape [T]
- Highlights online [+]

Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P]

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
- Number of employees
- Payroll
- Hours worked
- Value of construction work done, by type of structure
- Selected operating costs

Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Inventories
- Industry profiles
- Assets
- Depreciation
- And much more

Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

OTHER ECONOMIC CENSUSES REPORTS

The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233. If you have any questions, call Census Customer Services 1-(301)-763-4100.

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